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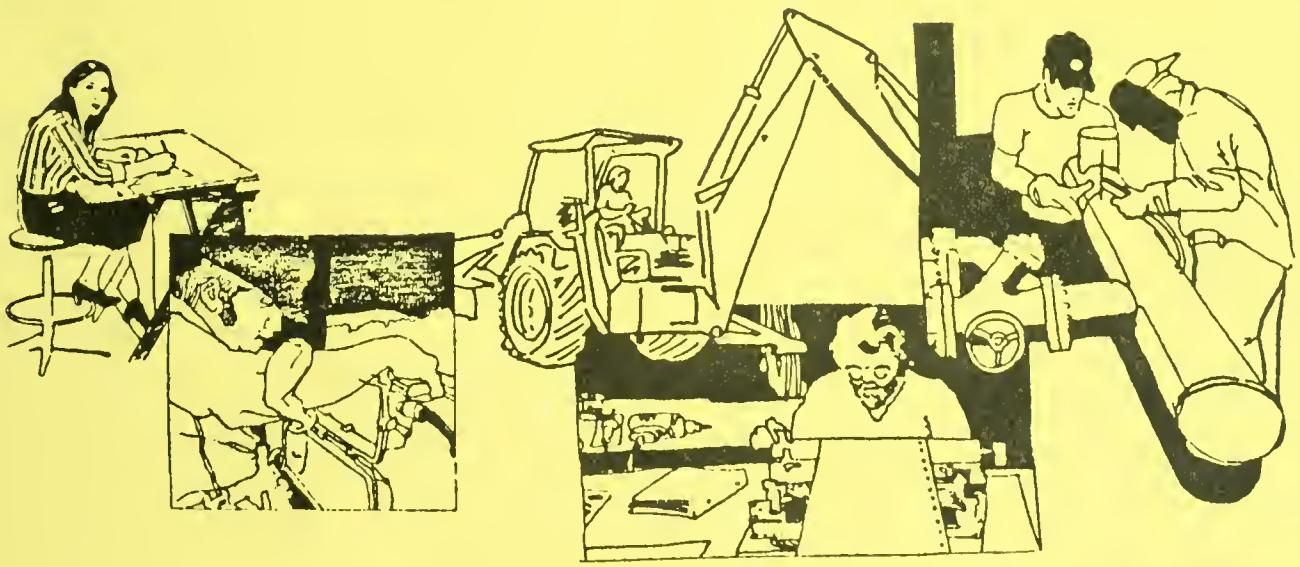

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MONTANA

APPRENTICEABLE OCCUPATIONS

June, 1986

State of Montana
Ted Schwinden, Governor

Department of Labor and Industry
Gene Huntington, Commissioner

Produced by:

The Montana State Occupational Information Coordinating Committee (SOICC)

For more information contact:

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DEPARTMENT OF LABOR AND INDUSTRY
CENTRALIZED SERVICES DIVISION

(406) 444-2430
STATE CAPITOL

TED SCHWINDEN, GOVERNOR

STATE OF MONTANA

HELENA, MONTANA 59624
P.O. Box 1728

Dear Reader:

The purpose of this publication is to help individuals who are considering a career which requires an apprenticeship.

This publication is a compilation of information about apprenticeships available in Montana. Sources for the information include the Apprenticeship Bureau, Department of Labor and Industry; Montana Career Information System; state licensing agencies; labor unions; employers; and the Research and Analysis Bureau, Department of Labor and Industry.

The report provides information about the length of apprenticeship programs, wages for journeyworkers, qualifications, union affiliation, employment outlook, and possible contacts for certain apprenticeships.

We hope this information will be useful to you.

Sincerely,

Bob Rafferty

Bob Rafferty, Chief
Research & Analysis Bureau

BR/KK:kk

AN EQUAL OPPORTUNITY EMPLOYER

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Introduction

The Montana State Occupational Information Coordinating Committee (SOICC) is a cooperative committee made up of representatives of the Department of Vocational Education Services, Office of Public Instruction; Job Service and Training Division, Department of Labor and Industry; Centralized Services Division, Department of Labor and Industry; Rehabilitative Services Division, Department of Social and Rehabilitation Services; Business Assistance Division, Department of Commerce; Office of the Commissioner of Higher Education; and the Montana Career Information System. One of the purposes of the Montana SOICC is to improve the information available to people who are making occupational and career choices.

To help individuals who are considering a career which requires an apprenticeship, the following pages present information on apprenticeships in Montana. Sources of the information included the Apprenticeship and Training Bureau, Montana Department of Labor and Industry; Montana Career Information System; state licensing agencies; labor unions; employers; and data published by the Research and Analysis Bureau, Centralized Services Division, Montana Department of Labor and Industry. Their cooperation made this project possible.

Your comments on and suggestions for improving this information are needed. We are also interested in the degree to which this information is used. Please send your comments to:

Montana SOICC
Attention: Program Officer
Research and Analysis Bureau
Montana Department of Labor and Industry
Post Office Box 1728
Helena, Montana 59624
(406) 444-2741

APPRENTICESHIP PROGRAMS

Apprenticeship is an on-the-job training system with a written agreement between a worker (apprentice) and an employer, by which the worker learns a skilled craft or trade. Some skilled crafts or trades require apprenticeship training, and there are many other jobs in which apprenticeship training is one way to gain training for entry-level journeyworker positions.

One study of the construction trades shows that apprentices get more varied training than people who learn trades informally. Journeyworkers who train through formal apprenticeships may not receive higher wages than those who train informally on the job, but they do work longer and more of them become supervisors.

Apprenticeship programs usually require three or four years (6,000 to 8,000 hours) of training, although programs vary from one to five years in length. An apprentice receives classroom instruction in one or a combination of settings, such as classes through a vo-tech, correspondence courses, special training sessions arranged by individual manufacturers (i.e., Cessna, Xerox, John Deere), or classes offered by individual unions. Apprentices completing a program registered with the Montana Apprenticeship Bureau receive a completion certificate verifying the high quality of the training program and the performance of the apprentice.

Qualifications vary by trade, employer and local apprenticeship committees, but usually include a minimum age of 18, a high school diploma or equivalent, and the physical requirements to work in the particular trade. Some also require specific coursework and/or minimum grade point average. Apprenticeship applicants must sometimes take a valid aptitude test and are often interviewed by a selection committee. There is often a three to six month period between selection and assignment to a job. Starting wage for an apprentice varies from 35% to 80% of the journeyworker's wage with the average being about 50%.

In Montana, successful apprenticeship programs have been sponsored by employers and labor unions, individually and together. Unions often administer their apprenticeships through committees called Joint Apprenticeship and Training Committees (JATCs), which include both employer and union members.

Applicants can contact the following for information about specific apprenticeship programs and application procedures:

(1) The Montana Apprenticeship and Training Bureau, Department of Labor and Industry, P.O. Box 1728, Helena, Montana 59624
(2) Local Job Service offices*
(3) An employer's office
(4) A labor union office
(5) Community apprenticeship committees

Employers interested in establishing a registered apprenticeship program can contact the Montana Apprenticeship and Training Bureau at (406) 444-5600. This agency will provide assistance and guidance in establishing and conducting apprenticeship programs.

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*All Job Service offices administer the General Aptitude Test Battery (GATB) to help an applicant determine if he/she has the general aptitudes necessary for specific occupations. Job Service offices also offer career counseling in larger cities.

The apprenticeship explanations have three codes listed: DOT, CIP, and OES Code.

DOT: Dictionary of Occupational Titles. This is a standardized occupational information classification system for purposes of job placement, employment counseling, occupational and career guidance, and labor market information services.

This publication can be used to find descriptions of occupations. The title listed in Montana Apprenticeable Occupations is from the DOT.

CIP: Classification of Instructional Programs. These are programs leading to the award of a high school diploma, college degree, or certificate of some form (programs resulting in an award are generally designed to provide one with a well-rounded education or to prepare one for further study or for entry into one or more occupations).

OES Code: Occupational Employment Statistics code. This classification system is a model representing the occupational staffing patterns of each industry. The staffing patterns are based on the result of the OES survey. An important function of the classification is that it shows where people work (industries) and what they do (occupations).

The number of apprentices listed for each occupation is taken from the May, 1986 Montana Apprenticeship and Training Bureau monthly report. The length of programs listed is average, and may vary depending on the area of the state that the training program is offered in.

APPRENTICESHIPS

1. Title: AIRFRAME AND POWER PLANT MECHANIC

2. DOT: 621.281-018

3. CIP: 47.0607, 47.0608

4. OES Code: 77285320

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$5.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): High school grad or equivalent; 17 years old required; May require aptitude test.

9. Physical Requirements: Good health; Good vision; Able to lift heavy parts and tools; Agility; Able to work in high places.

10. Related Classroom Training: Minimum 144 hours yearly recommended (training often through a vo-tech or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Auto Mechanics, Math, Wood shop, Welding, Physics, Metal shop, Applied Electrical Shop, English, Chemistry.

12. Licensing Requirements (reference only): Federal Aviation Administration licenses for "airframe mechanic," "powerplant mechanic," and "aircraft inspectors."

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Most work in large cities at the airlines' main stops; Experience in auto repair helpful; Employment opportunities best for those with a combination "airframe and powerplant" license as well as an "aircraft inspector" license; Airline employment competition keen because wages higher with more benefits; Most employers prefer vo-tech grads or experienced mechanics as apprentices; Number employed in Montana in 1984 was 469; Projected employment in 1990 is 491; Projected annual openings are 19.

15. For addresses of airline companies, write to: Air Transportation Association of America, 1709 New York Ave. NW, Washington, D.C., 20006.

APPRENTICESHIPS

1. Title: AUTOMOBILE BODY REPAIRER

2. DOT: 807.381-010

3. CIP: 47.0603

4. OES Code: 77285305

5. Number: 17
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $11.00 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; JATC requires high school diploma or equivalent, aptitude test.

9. Physical Requirements: General good health; Stamina; Good eye-hand coordination; Good color perception; Ability to lift up to 75 pounds; Ability to work in a closed space with noise, dust, and chemical fumes.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Industrial Arts (i.e., Metalwork, Auto Mechanics, Welding), Math; Drafting, Painting, Metallurgy.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns, but union shops are more prevalent in larger towns; Career advancement opportunities limited; Job opportunities better for applicants with previous related experience through a vo-tech, military service, etc; Number employed in Montana in 1984 was 597; Projected employment in 1990 is 630; Projected annual openings are 18.

15. Other: The Montana Automobile Dealers' Association administers an apprenticeship program in Montana; their address is 501 North Sanders, Helena, Montana 59601.

APPRENTICESHIPS

1. Title: AUTOMOTIVE MAINTENANCE EQUIPMENT SERVICER

2. DOT: 620.281-018

3. CIP: 47.0303

4. OES Code: 77285301

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$9.00 per hour

8. Minimum Qualifications (age, education, etc.): Current vehicle operator's license, good driving record.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechanics, Machine Shop, Welding.

12. Licensing Requirements (reference only): None required but voluntary testing for national certification exists.

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Union shops more prevalent in larger communities; Career advancement opportunities limited; Growing demand for specialists; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other:

APPRENTICESHIPS

1. Title: AUTOMOBILE MECHANIC

2. DOT: 620.261-012

3. CIP: 47.0604

4. OES Code: 77285301

5. Number: 29
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorary discharge if veteran.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechanics, Machine Shop, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Career advancement opportunities limited; Growing demand for specialists; Union shops more prevalent in larger communities; Applicants should have current vehicle operator's license and good driving record; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other: The Montana Automobile Dealers' Association administers an apprenticeship program in Montana; their address is 501 North Sanders, Helena, Montana 59601.

APPRENTICESHIPS

1. Title: AVIONICS TECHNICIAN

2. DOT: 823.281-010

3. CIP: 47.0103

4. OES Code: 77285599

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 2 1/2 years

7. Wages:
Average Wage Range for Journeyworker:
$5.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): Post-high school training required.

9. Physical Requirements: Good eye-hand coordination; Manual dexterity; Good hearing and color vision; Mechanical aptitude.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Radio Shop, Electronics, Physics, English.

12. Licensing Requirements (reference only): Federal Communications Commission (FCC) licensing required.

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Frequent retraining required; Number employed in Montana in 1984 as communication mechanics was 37; Projected employment in 1990 is 37; There are no projected annual openings.

15. Other:

1. Title: BAKER APPRENTICE

2. DOT: 526.381-014

3. CIP: 20.0402

4. OES Code: 55565021

5. Number: 11
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 - $10.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school diploma or equivalent preferred.

9. Physical Requirements: Good health; Good sense of taste and small; Able to lift and carry heavy weights; Free of communicable diseases; Clean and neat appearance.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Food Service, Math, Chemistry, English, Home Economics, Bacteriology, Speech, Retailing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Bakers and Confectionary Workers International of America

14. Additional Information: Irregular hours; Most jobs in metropolitan areas; Few jobs available in Montana; Total employment likely to decline because of mechanization; Number employed in Montana in 1984 was 534; Projected employment in 1990 is 582; Projected annual openings are 29.

15. Other:

APPRENTICESHIPS

1. Title: BOAT REPAIRER

2. DOT: 807.361-014

3. CIP: 49.0306

4. OES Code: 77285132

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 1/2 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 per hour

8. Minimum Qualifications (age, education, etc.): 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorable discharge from military if veteran.

9. Physical Requirements: General good health; Stamina; Good eye-hand coordination; Good color perception; Ability to lift up to 75 pounds; Ability to work in a closed space with dust and chemical fumes.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Industrial Arts (i.e., Metalwork, Auto Mechanics, Welding), Math, Drafting, Painting, Metallurgy.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Hobbies dealing with boating may increase employment opportunities; Number employed in Montana in 1984 as general maintenance repairers was 3,397; Projected employment in 1990 is 3,361; Projected annual openings are 363.

15. Other:

APPRENTICESHIPS

1. Title: BOILERMAKER APPRENTICE

2. DOT: 805.261-010

3. CIP:

4. OES Code: 77489135

5. Number: 12 (Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$17.34 per hour

8. Minimum Qualifications (age, education, etc.): 18 preferred; High school or vo-tech grad required; May require aptitude test.

9. Physical Requirements: Good health; Mechanical aptitude; Manual dexterity; Able to work in cramped quarters and in high places.

10. Related Classroom Training: Minimum 144 hours annually. (Union affiliation requires a 48 month correspondence course prepaid by apprentice; fee is reimbursed by union at graduation.)

11. Helpful (pretraining) School Subjects: Welding, Metal Shop, Blueprint Reading, Math, Machine Metalworking.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Boilermakers, Iron Shipbuilders, Blacksmiths, Forgers and Helpers

14. Additional Information: Employment nationally concentrated in highly industrialized areas; Both apprentices and journeyworkers often have to travel from one area to another for work; Employment opportunities in Montana are increasing with construction of new electric powerplants; Most boilermakers in the state have union affiliation; Number employed in Montana in 1984 was 38; Projected employment in 1990 is 36; Projected annual openings are 1.

15. Other: The Missouri River Basin Area Boilermakers Apprenticeship Program administers an apprenticeship program in Montana. Their address is P.O. Box 160, Excelsior Springs, MO 64024.

APPRENTICESHIPS

1. Title: BOILER OPERATOR (THERMAL)
2. DOT: 950.382-010
3. CIP: 15.0403, 15.0501, 47.0502
4. OES Code: 77795032
5. Number: 24 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages: Average Wage Range for Journeyworker: $16.39 per hour
8. Minimum Qualifications (age, education, etc.): 18 year old preferred; High school diploma or equivalent preferred..
9. Physical Requirements: Mechanical aptitude; Manual dexterity; Good physical condition.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Chemistry, Physics, Mechanical Drawing, Machine Shop, Applied Electricity.
12. Licensing Requirements (reference only): See next page.
13. Union Affiliation: International Union of Operating Engineers
14. Additional Information: Rish of burns from some machinery exists; Shift work is common; Number employed in montana in 1984 was 133; Projected employment in 1990 is 132; Projected annual openings are 5.
15. Other:

LICENSING INFORMATION

1. Job Title STATIONARY ENGINEER (BOILER OPERATOR) DOT: 950.382-010
2. Licensing agency Montana Department of Labor and Industry
3. License application procedure Contact office listed below

   Office Dept. of Labor and Industry, Division of Workers' Compensation
   Safety Bureau

   Address P.O. Box 4759
   Helena, Montana 59604

   Telephone 444-6401
4. Fees:

   License fee 1st Class - $30.00 3rd Class - $12.00 Traction - $12.00
   2nd Class - $20.00 Low Pressure - $ 8.00

   Exam fee One half license fee - non-refundable

   Temporary license fee N/A

   Renewal fee $4 annually, plus physical examination.

   Replacement fee $2 if lost
5. Exam information Varies; can be given anytime in Helena, otherwise when inspector is in your area.
6. Experience required See next page
7. Education N/A
8. Other

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

SAFETY BUREAU
Division of Workers' Compensation

INFORMATION AND FEE SCHEDULE FOR
BOILER LICENSE

The following is for your information in determining the class and cost of the license, the experience required and the rated size of the equipment.

Each application is to be accompanied by ONE HALF (1/2) of the license fee. This payment shall be forfeited if applicant fails to appear for a scheduled examination or fails the test.

--BOILERS--

CLASS/COST	MINIMUM EXPERIENCE	RATED SIZE
Low Pressure $ 8.00	3 mos. full-time actual experience operating steam & hot water boilers	Up to 15 psi steam, and 50 psi hot water
Third Class $12.00	6 mos. full-time actual experience under a 3rd, 2nd or 1st class engineer	To 100 psi steam, and 150 psi hot water
Second Class $20.00	2 year's full-time actual experience OR hold a valid 3rd class license with no less than 1 year full time actual experience under 2nd or 1st class engineer	Not to exceed 250 psi steam and not to exceed 375 psi hot water and 450 degree temperature
First Class $30.00	3 years full-time actual experience OR hold a valid 2nd class license with no less than 1 year full-time actual experience, OR hold a valid 3rd class license with no less than 2 year's full-time actual experience under a 1st class engineer	All Classes 250 psi steam and up
TRACTION $12.00 (NOTE: Not good for stationary boilers)	6 months experience	Any size

APPRENTICESHIPS

1. Title: BOOKBINDER, APPRENTICE

2. DOT: 977.381-014

3. CIP: 48.0202

4. OES Code: 77489711

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$11.72 per hour

8. Minimum Qualifications (age, education, etc.): Minimum 17 years old; Prefer high school or vo-tech graduate.

9. Physical Requirements: Mechanical aptitude; Manual dexterity; Good eye-hand coordination; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (often correspondence courses in Montana).

11. Helpful (pretraining) School Subjects: Shop courses to develop mechanical skills, English, Electronics, Photography.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Typographical Union (AFL-CIO); The Graphic Arts International Union

14. Additional Information: Employment concentrated in large printing centers, i.e., New York City, Chicago, Washington, D.C., and Los Angeles; Increased mechanization limits occupational growth; Limited employment opportunities in Montana; Number employed in Montana in 1984 was 40; Projected employment in 1990 is 45; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: BRAKE REPAIRER

2. DOT: 620.281-026

3. CIP: 47.0604

4. OES Code: 77285301

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$4.50 - $6.00 per hour

8. Minimum Qualifications (age, education, etc.): Minimum 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorary discharge if veteran.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechanics, Machine Shop, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Career advancement opportunities limited; Growing demand for specialists; Union shops more prevalent in larger communities; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other:

1. Title: BRICKLAYER APPRENTICE

2. DOT: 861.381-022

3. CIP: 46.0102

4. OES Code: 77387302

5. Number: 11
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$13.00 - $17.45 per hour

8. Minimum Qualifications (age, education, etc.): 17 years minimum; JATC requires aptitude test, high school diploma or equivalent; honorable discharge if veteran.

9. Physical Requirements: Good health; Able to do heavy lifting; Able to work standing and stooping for prolonged periods; Good sense of balance.

10. Related Classroom Training: Minimum 144 hours annually preferred.

11. Helpful (pretraining) School Subjects: Welding, Math, Mechanical Drawing, English, Blueprint Reading, Sketching, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Union of Bricklayers and Stonemasons

14. Additional Information: Nationally in 1976, one out of seven were self-employed; Employment opportunities fluctuate from year to year with the building industry; Most work available in spring and summer; Cheaper concrete is replacing stone and marble in construction for many buildings; Number employed in Montana in 1984 was 111; Projected employment in 1990 is 101; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: BUTCHER APPRENTICE

2. DOT: 525.381-010

3. CIP: 48.0403

4. OES Code: 77489801

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$6.25 - $8.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school grad or equivalent preferred.

9. Physical Requirements: Stamina; Good color discretion; General good health; Agility; Free of communicable diseases; Good manual dexterity; Strong back; Able to work in low temperatures for long periods on feet; Good eye-hand coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Speech, Biology, Metal Shop, Typing, English, Math, Retail Merchandising, Zoology, Marketing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Amalgamated Meat Cutters and Butcher Workers of North America

14. Additional Information: Must usually pass a meatcutting test to become a journeyworker; Number employed in Montana in 1984 was 750; Projected employment in 1990 is 699; Projected annual openings are 15.

15. Other:

APPRENTICESHIPS

1. Title: CABINETMAKER APPRENTICE
2. DOT: 660.280-014
3. CIP: 48.0703
4. OES Code: 77489311
5. Number: 4 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $13.50 per hour
8. Minimum Qualifications (age, education, etc.): JATC requires 17 years old, aptitude test, high school graduation.
9. Physical Requirements: Finger dexterity; Good eye-hand coordination; Stamina; Agility; Normal vision; Strong hands; No sinus or other allergic conditions; Able to lift weights from 20-100 pounds; Able to tolerate noise, wood dust, and machine vibrations.
10. Related Classroom Training: Minimum 144 hours annually preferred.
11. Helpful (pretraining) School Subjects: Wood Shop, Metal Shop, Math, Mechanical Drawing, Welding, Blueprint Reading, English.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: United Brotherhood of Carpenters and Joiners of America
14. Additional Information: Provide own hand tools; The increasing use of prefabricated cabinets partially made with automated machines may limit the need for cabinetmakers; Number employed in Montana in 1984 was 200; Projected employment in 1990 is 201; Projected annual openings are 9.
15. Other:

APPRENTICESHIPS

1. Title: CABLE SPLICER APPRENTICE (PHONE)
2. DOT: 829.361-014
3. CIP: 46.0303
4. OES Code: 77285702
5. Number: 5 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $14.39 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old; High school diploma or equivalent; JATC requires aptitude test; 1 year high school Algebra preferred.
9. Physical Requirements: Able to work in high places and below ground in cramped positions; Manual dexterity; Excellent health; Good vision; Acute hearing; Good color perception; Able to lift heavy weights.
10. Related Classroom Training: Minimum 144 hours annually preferred.
11. Helpful (pretraining) School Subjects: Electronics, Math, Physical Education, Electrical Theory.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Brotherhood of Electrical Workers
14. Additional Information: Work on poles, on aerial ladders and platforms, in manholes, or in basements of large buildings; Requires constant retraining; May work long and irregular hours; Inexperienced workers often hired and trained; May be part of line installer and repairer crew; Number employed in Montana in 1984 as telephone and cable TV installers was 322; Projected employment in 1990 is 313; Projected annual openings are 3.
15. Other:

APPRENTICESHIPS

1. Title: CABLE TESTER (PHONE)
2. DOT: 822.361-030
3. CIP: 46.0303
4. OES Code: 77285702
5. Number: 15 (Active Apprentices in State)
6. Length of Program: 4
7. Wages: Average Wage Range for Journeyworker: $14.39 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old; High school diploma or equivalent; JATC requires aptitude test; 1 year high school Algebra preferred.
9. Physical Requirements: Able to work in high places and below ground in cramped positions; Manual dexterity; Excellent health; Good vision; Acute hearing; Good color perception; Able to lift heavy weights.
10. Related Classroom Training: Minimum 144 hour annually preferred.
11. Helpful (pretraining) School Subjects: Electronics, Math, Physical Education, Electrical Theory.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Brotherhood of Electrical Workers
14. Additional Information: Work on poles, on aerial ladders and platforms, in manholes, or in basements of large buildings; Requires constant retraining; May work long and irregular hours; Inexperienced workers often hired and trained; May be part of line installer and repairer crew; Number employed in Montana in 1984 as telephone and cable TV installers was 322; Projected employment in 1990 is 313; Projected annual openings are 3.
15. Other:

APPRENTICESHIPS

1. Title: CARPENTER APPRENTICE
2. DOT: 860.381-026
3. CIP: 46.0201
4. OES Code: 77387110
5. Number: 110 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $10.00 - $13.81 per hour
8. Minimum Qualifications (age, education, etc.): JATC requires 17 years old; Aptitude test; High school or vo-tech graduation.
9. Physical Requirements: Good health; Finger dexterity; Strong hands; Stamina; Normal vision; No sinus or other allergy problems; Ability to work in high places; Good balance; Good eye-hand coordination; Good math ability; Able to lift weights.
10. Related Classroom Training: Minimum 144 hours annually preferred.
11. Helpful (pretraining) School Subjects: Wood Shop, Metal Shop, Math, Mechanical Drawing, Welding, English, Blueprint Reading.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: United Brotherhood of Carpenters and Joiners of America
14. Additional Information: Provide own hand tools; Specialization more common in large metropolitan areas; May also install insulation; Extra credit is given in considering applicants for apprenticeship for courses in math, science, shop, and blueprint reading; Nationally in 1976, one out five carpenters was self-employed; Number employed in Montana in 1984 was 2,869; Projected employment in 1990 is 2,759; Projected annual openings are 72.
15. Other:

APPRENTICESHIPS

1. Title: CARPET LAYER

2. DOT: 864.381-010

3. CIP: 46.0405

4. OES Code: 77387602

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$9.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Strong back; legs; and knees; Ability to carry heavy weights; Mechanically inclined.

10. Related Classroom Training: None

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Math, English, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Brotherhood of Carpenters and Joiners of America; International Brotherhood of Painters and Allied Trades

14. Additional Information: Trade hazards include knee ailments and rheumatism; Nationally in 1976, one out of four was self-employed; Often requires a valid driver's license; Most employment opportunities are in large cities; May require travel; Number employed in Montana in 1984 was 52; Projected employment in 1990 is 56; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: CEMENT MASON APPRENTICE
2. DOT: 844.364-010
3. CIP: 46.0402
4. OES Code: 77387311
5. Number: 0 (Active Apprentices in State)
6. Length of Program: 2 years
7. Wages: Average Wage Range for Journeyworker: $12.75 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school diploma or equivalent preferred.
9. Physical Requirements: Good physical condition; Able to work long hours stooping, bending, and kneeling.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Math, Blueprint Reading, Shop, Mechanical Drawing.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: Operative Plasterers' and Cement Masons' International Association
14. Additional Information: Nationally in 1976, 1 out of 10 was self-employed; Many specialize; Nationally one-third worked as construction laborers (i.e., hod carriers) before becoming masons; Often need valid driver's license; Job opportunities vary with the building industry but cement is a popular building material; May require travel to job sites in the state or region; Number employed in Montana in 1984 was 338; Projected employment in 1990 is 326; Projected annual openings are 6.
15. Other:

APPRENTICESHIPS

1. Title: CENTRAL OFFICE REPAIRER (PHONE)

2. DOT: 822.281-014

3. CIP: 47.0103

4. OES Code: 77285502

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$14.39 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old; High school diploma or equivalent; JATC requires aptitude test; 1 year high school Algebra preferred.

9. Physical Requirements: Able to work in high places and below ground in cramped positions; Manual dexterity; Excellent health; Good vision; Acute hearing; Good color perception; Able to lift heavy weights.

10. Related Classroom Training: Minimum 144 hours annually preferred.

11. Helpful (pretraining) School Subjects: Electronics, Math, Physical Education, Electrical Theory.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Requires constant retraining; May work long and irregular hours; Inexperienced workers often hired and trained; May be part of line installer and repairer crew; Number employed in Montana in 1984 was 270; Projected employment in 1990 is 229; Projected annual openings are 3.

15. Other:

APPRENTICESHIPS

1. Title: CHEF

2. DOT: 313.131-014

3. CIP: 20.0403

4. OES Code: 55565026

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $7.50 per hour

8. Minimum Qualifications (age, education, etc.): High school diploma or equivalent preferred; 18 years old preferred.

9. Physical Requirements: Good general health; Cleanliness; Keen sense of taste and smell; Physical stamina; Free from communicable disease.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Business Math, Business Administration, Biology, English, Home Economics, Commercial Food Preparation.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Hotel and Restaurant Employees and Bartenders International Union

14. Additional Information: Must be able to work fast and under pressure; Often work irregular hours; Particularly fast growth is expected in institutions serving the expanding elderly population; Number employed in Montana in 1984 was 2,653; Projected employment in 1990 is 3,053; Projected annual openings are 181.

15. Other:

APPRENTICESHIPS

1. Title: CHILD CARE DEVELOPMENT SPECIALIST

2. DOT: 359.342-540

3. CIP: 20.0202

4. OES Code: 55868038

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$4.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Patience; Emotional stability; Enjoyment of and ability to work with children; Good physical condition.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Child Development, Early Childhood Education, Child Psychology.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Staff may work split shifts in large day care centers; Noise levels sometimes high; Number employed in Montana in 1984 as child care workers was 448; Projected employment in 1990 is 507; Projected annual openings are 36.

15. Other:

APPRENTICESHIPS

1. Title: COIN MACHINE SERVICE REPAIRER

2. DOT: 639.281-014

3. CIP: 47.0109

4. OES Code: 77285947

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.80 - $11.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 preferred; High school graduation preferred; May require an aptitude test.

9. Physical Requirements: Mechanical ability; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (often through a correspondence course or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Applied Electrical Shop, Physics, English, Math, Mechanical Drawing, Welding, Metal Shop, Public Speaking.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Need a record of honesty and respect for the law; Often need a commercial driver's license and good driving record; Varied working hours; Frequent retraining; Number of job openings few; Often requires travel; Number employed in Montana in 1984 was 71; Projected employment in 1990 is 89; Projected annual openings are 5.

15. Other:

APPRENTICESHIPS

1. Title: COMPUTER PERIPHERAL EQUIPMENT OPERATOR

2. DOT: 213.382-010

3. CIP: 07.0304

4. OES Code: 44656014

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Good general health; Physical stamina; Manual dexterity; Ability to follow detailed and organized procedures.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Typing, Computer Science courses, Data Processing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Irregular work hours; Number employed in Montana in 1984 was 124; Projected employment in 1990 is 127; Projected annual openings are 4.

15. Other:

APPRENTICESHIPS

1. Title: CONSTRUCTION EQUIPMENT MECHANIC

2. DOT: 620.261-022

3. CIP: 47.0302

4. OES Code: 77285314

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$11.24 - $14.16 per hour

8. Minimum Qualifications (age, education, etc.): High school or vo-tech grad preferred; 18 years old preferred.

9. Physical Requirements: Good physical condition; Able to lift heavy weights; Good manual dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred.

11. Helpful (pretraining) School Subjects: Math, Chemistry, Physics, Blueprint Reading, Welding, Machine Shop, Auto Mechanics, Mechanical Drawing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers; International Brotherhood of Operating Engineers

14. Additional Information: Provide own hand tools; Tools cost between $3,000 and $4,000; Vo-Tech or automobile mechanic experience preferred; Number employed in Montana in 1984 as heavy equipment mechanics was 749; Projected employment in 1990 is 734; Projected annual openings are 21.

15. Other:

APPRENTICESHIPS

1. Title: COOK APPRENTICE

2. DOT: 313.361-018

3. CIP: 20.0403

4. OES Code: 55565026

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$4.50 - $5.50 per hour

8. Minimum Qualifications (age, education, etc.): High school diploma or equivalent preferred; 18 years old preferred.

9. Physical Requirements: Cleanliness; Keen sense of taste and small; Physical stamina; Free from communicable diseases.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Business Math, Biology, English, Home Economics, Business Administration, Commercial Food Preparation.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Hotel & Restaurant Employees and Bartenders International Union

14. Additional Information: Must be able to work fast and under pressure; Often irregular hours; Number employed in Montana in 1984 was 2,653; Projected employment in 1990 is 3,053; Projected annual openings are 181.

15. Other:

APPRENTICESHIPS

1. Title: CYLINDER PRESS OPERATOR APPRENTICE

2. DOT: 651.362-014

3. CIP: 48.0208

4. OES Code: 77489799

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Eye-hand coordination; Manual dexterity; Good color vision; Ability to see detail and picture objects of two or three dimensions; Ability to lift up to 100 pounds.

10. Related Classroom Training: Minimum 144 hours yearly recommended (off correspondence).

11. Helpful (pretraining) School Subjects: English, Graphic Arts, Math, Chemistry, Physics, Mechanical Drawing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Billings-Missoula Printing and Graphics Communications Union (AFL-CIO); International Printing and Graphic Communications Union

14. Additional Information: Work under pressure to meet deadlines; Union shops only work through apprenticeship training programs; Noisy work; Number employed in Montana in 1984 as precision printers was 35; Projected employment in 1990 is 37; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: DENTAL ASSISTANT

2. DOT: 079.371-010

3. CIP: 17.0101

4. OES Code: 55666002

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 1 year

7. Wages:
Average Wage Range for Journeyworker:
$6.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Good eye-hand coordination; Exactness and precision for detail; Good health; Personable.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Accounting, Typing, English.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Office setting, working closely with people; Certification to do x-ray should enhance employability; Number employed in Montana in 1984 was 517; Projected employment in 1990 is 595; Projected annual openings are 33.

15. Other:

APPRENTICESHIPS

1. Title: DENTAL LABORATORY TECHNICIAN APPRENTICE

2. DOT: 712.381-022

3. CIP: 17.0103

4. OES Code: 77489921

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$5.00 - $9.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school diploma or equivalent preferred.

9. Physical Requirements: Good eyesight; Excellent manual dexterity; Good color discretion; Good motor coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: English, Biology, Art, Algebra, Chemistry, Geometry, Physics, Anatomy, Crafts, Metal Shop.

12. Licensing Requirements (reference only): Not required by State of Montana at this time. See item 14 below.

13. Union Affiliation:

14. Additional Information: Requires patience and aptitude for detailed work; Written and practical exams are administered by the National Board for Certification or the National Association of Dental Laboratories, certified dental technician license dispensed; Ceramics, jewelry, and other art classes may help develop manual and finger dexterity necessary for technicians; Number employed in Montana in 1984 was 48; Projected employment in 1990 is 53; Projected annual openings are 3.

15. Other:

APPRENTICESHIPS

1. Title: DETAILER

2. DOT: 017.261-018

3. CIP: 15.0201, 15.0202, 48.0105

4. OES Code: 22122512

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Finger dexterity; Good eyesight; Ability to visualize and draw three dimensional objects.

10. Related Classroom Training: Minimum 144 hours annual preferred.

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Art, Math, English, Graphics, Physical Sciences, Drafting, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: .

14. Additional Information: Many employers require post-secondary technical education; Employment fluctuates with building industry; Number employed in Montana in 1984 as drafters was 483; Projected employment in 1990 is 515; Projected annual openings are 21.

15. Other:

APPRENTICESHIPS

1. Title: DIESEL MECHANIC APPRENTICE

2. DOT: 625.281-014

3. CIP: 47.0605

4. OES Code: 77285311

5. Number: 5
(Active Apprentices in State)

6. Length of Program: 3-4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $12.23 per hour

8. Minimum Qualifications (age, education, etc.): High school or vo-tech graduate preferred; 18 years old preferred.

9. Physical Requirements: Good physical condition; Able to lift heavy weights; Good manual dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (often through a vo-tech or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Auto Mechanics, Mechanical Drawing, Physics, Welding, Math, Blueprint Reading, Basic Electricity, Machine Shop.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Workers provides own hand tools; Vo-tech or automobile mechanic experience preferred; Number employed in Montana in 1984 as bus, truck, and heavy equipment mechanics was 1,138; Projected employment in 1990 is 1,197; Projected annual opeings are 40.

15. Other:

APPRENTICESHIPS

1. Title: DRAFTER, ARCHITECTURAL

2. DOT: 001.261-010

3. CIP: 15.0202, 48.0102

4. OES Code: 22122512

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred: High school graduation or equivalent preferred.

9. Physical Requirements: Finger dexterity; Good eyesight; Ability to visualize and draw three dimensional objects.

10. Related Classroom Training: Minimum 144 hours annual preferred.

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Art, Math, English, Graphics, Physical Sciences, Drafting, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Many employers require post-secondary technical education; Employment fluctuates with building industry; Number employed in Montana in 1984 as drafters was 483; Projected employment in 1990 is 515; Projected annual openings are 21.

15. Other:

APPRENTICESHIPS

1. Title: DRAFTER, MECHANICAL

2. DOT: 007.281-010

3. CIP: 15.0202, 15.0805, 48.0105

4. OES Code: 22122512

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Finger dexterity; Good eyesight; Ability to visualize and draw three dimensional objects.

10. Related Classroom Training: Minimum 144 hours annual preferred.

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Art, Math, English, Graphics, Physical Sciences, Drafting, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Many employers require post-secondary technical education; Number employed in Montana in 1984 as drafters was 483; Projected employment in 1990 is 515; Projected annual openings are 21.

15. Other:

APPRENTICESHIPS

1. Title: DRAFTER, STRUCTURAL

2. DOT: 005.281-014

3. CIP: 15.0201, 15.0202, 48.0103

4. OES Code: 22122512

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Finger dexterity; Good eyesight; Ability to visualize and draw three dimensional objects.

10. Related Classroom Training: Minimum 144 hours annual preferred.

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Art, Math, English, Graphics, Physical Sciences, Drafting, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Many employers require post-secondary technical education; Employment fluctuates with building industry; Number employed in Montana in 1984 as drafters was 483; Projected employment in 1990 is 515; Projected annual openings are 21.

15. Other:

APPRENTICESHIPS

1. Title: DRY-WALL APPLICATOR

2. DOT: 842.681-010

3. CIP: 46.0404

4. OES Code: 77387108

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$12.00 - $14.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Good physical condition; Stamina.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Carpentry, Arithmetic, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Brotherhood of Carpenters and Joiners of America; International Brotherhood of Painters and Allied Trades

14. Additional Information: Most job openings are in metropolitan areas; Work is seasonal; Travel to different sites in state or region may be necessary; Number employed in Montana in 1984 was 72; Projected employment in 1990 is 68; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: ELECTRICAL APPLIANCE SERVICER APPRENTICE
2. DOT: 827.261-014
3. CIP: 47.0106
4. OES Code: 77285709
5. Number: 1 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages:
   Average Wage Range for Journeyworker:
   $8.00 per hour
8. Minimum Qualifications (age, education, etc.): Prefer high school or vo-tech grad; Experience preferred in Electronics or Applied Electricity.
9. Physical Requirements: Ability to climb, balance, stoop, lift, and kneel; Good eyesight; Good use of hands and arms; Mechanical aptitude.
10. Related Classroom Training: Minimum 144 hours annually recommended.
11. Helpful (pretraining) School Subjects: Electronics, Shop, Math, Physics, Public Speaking, Blueprint Reading, Chemistry.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Brotherhood of Electrical Workers
14. Additional Information: Periodic retraining; Valid driver's license required; Worker provides own set of tools; May require some weekend work; Number employed in Montana in 1984 as home appliance repairers was 332; Projected employment in 1990 is 349; Projected annual openings are 14.
15. Other:

APPRENTICESHIPS

1. Title: ELECTRICIAN APPRENTICE

2. DOT: 824.261-014

3. CIP: 46.0302

4. OES Code: 77387202

5. Number: 58
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.50 - $18.95 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or vo-tech graduate preferred; JATC requires aptitude test and one year of Algebra.

9. Physical Requirements: Able to work in high places; Good health; Agility; Manual dexterity; Good color discretion.

10. Related Classroom Training: Minimum 144 hours annually preferred (sometimes correspondence courses).

11. Helpful (pretraining) School Subjects: Blueprint Reading, Electrical Theory, Electronics, Math (esp. Algebra), Mechanical Drawing, Science, Shops, Physics.

12. Licensing Requirements (reference only): See next page.

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Employment opportunities vary with building industry; Worker provides own hand tools; May work irregular hours; Number employed in Montana in 1984 was 1,255; Projected employment in 1990 is 1,220; Projected annual openings are 19.

15. Other:

LICENSING INFORMATION

1. Job Title ELECTRICIAN DOT: 824.261-014
2. Licensing agency Montana State Electrical Board
3. License application procedure Contact office listed below

   Office Department of Commerce, Building Codes Bureau

   Address Capitol Station

   Helena, Montana 59620

   Telephone 444-4390
4. Fees:

   Application fee $10.00 (non-refundable)

   Exam fee $25.00

   Journeyworker license $10.00

   Annual renewal fee for journeyworker license $7.50

   Temporary license fee $20.00 ($10.00 for application fee, $10.00 for license fee)
5. Exam information Application must be on file at the Board's office at least 60 days previous to date of examination. Exams are given four times per year. Applicants are notified of date, time, and place.
6. Experience required Four years in electrical apprenticeship or four years of practical experience in wiring for installing and repairing electrical apparatus and equipment for light, heat, and power.
7. Education Electrical training in a college, university, vocational, or trade school may be accepted as part of the required experience, but credit given shall not exceed two years. Claims for school or training shall be verified by supplying diploma, statement of transcript from school indicating type of training, hours attended, grades, and a course outline.
8. Other Signed statements from employer(s), proof of apprenticeship completion and training, or other documented written evidence shall be supplied by applicant with application. Resumes will not be considered written verification. The Board will accept only electrical experience in the construction field.

*Self-employed electricians who make electrical installations must be licensed as electrical contractors. This requires an annual fee of $50.00 but no examination.

APPRENTICESHIPS

1. Title: ELECTRICIAN, AUTOMOTIVE

2. DOT: 825.281-022

3. CIP: 47.0604

4. OES Code: 77285301

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 per hour

8. Minimum Qualifications (age, education, etc.): Minimum 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorary discharge if veteran.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechanics, Machine Shop, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Career advancement opportunities limited; Union shops more prevalent in larger communities; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other: The Montana Automobile Dealers' Association administers an apprenticeship program in Montana; their address is 501 North Sanders, Helena, Montana 59601.

APPRENTICESHIPS

1. Title: ELECTRICIAN, SUBSTATION

2. DOT: 820.261-018

3. CIP: 47.0502

4. OES Code: 77387202

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$15.91 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or vo-tech graduate preferred; JATC requires aptitude test and one year of Algebra.

9. Physical Requirements: Able to work in high places; Good health; Agility; Manual dexterity; Good color discretion.

10. Related Classroom Training: Minimum 144 hours annually preferred (sometimes correspondence courses).

11. Helpful (pretraining) School Subjects: Blueprint Reading, Electrical Theory, Electronics, Math (esp. Algebra), Mechanical Drawing, Science, Shops, Physics.

12. Licensing Requirements (reference only):

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Employment opportunities vary with building industry; Worker provides own hand tools; May work irregular hours; Number employed in Montana in 1984 as electricians was 1,255; Projected employment in 1990 is 1,220; Projected annual openings are 19.

15. Other:

APPRENTICESHIPS

1. Title: ELECTRIC METER REPAIRER (UTILITY)
2. DOT: 729.281-014
3. CIP: 47.0401
4. OES Code: 77285799
5. Number: 1 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages: Average Wage Range for Journeyworker: $15.91 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or vo-tech graduate preferred; JATC requires aptitude test and one year of Algebra.
9. Physical Requirements: Able to work in high places; Good health; Agility; Manual dexterity; Good color discretion.
10. Related Classroom Training: Minimum 144 hours annually preferred (sometimes correspondence courses).
11. Helpful (pretraining) School Subjects: Blueprint Reading, Electrical Theory, Electronics, Math (esp. Algebra), Mechanical Drawing, Science, Shops, Physics.
12. Licensing Requirements (reference only):
13. Union Affiliation: International Brotherhood of Electrical Workers
14. Additional Information: Employment opportunities vary with building industry; May work irregular hours; Number employed in Montana in 1984 as electrical mechanics was 199; Projected employment in 1990 is 210; Projected annual openings are 8.
15. Other:

APPRENTICESHIPS

1. Title: ELECTRIC MOTOR REPAIRER

2. DOT: 721.281-018

3. CIP: 47.0107

4. OES Code: 77285714

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or equivalent preferred.

9. Physical Requirements: Mechanical aptitude, Manual dexterity, Good physical condition.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Small Engine Repair, Auto Mechanics, Machine Shop, Science, Math, Electronics.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Provide own hand tools; Number employed in Montana in 1984 was 30; Projected employment in 1990 is 32; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: ELECTROMEDICAL EQUIPMENT REPAIRER

2. DOT: 729.281-030

3. CIP: 15.0401

4. OES Code: 77285908

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$11.22 per hour

8. Minimum Qualifications (age, education, etc.): High school graduation or equivalent plus experience in related jobs or technical training.

9. Physical Requirements: Mechanical ability; Better than average manual dexterity; Eye-hand coordination; Ability to see detail.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Chemistry, Electronics, Machine Shop, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Additional technical training offered at colleges and vo-techs is becoming an essential requirement; Number employed in Montana in 1984 was 10; Projected employment in 1990 is 10; There are no projected annual openings.

15. Other:

APPRENTICESHIPS

1. Title: ELECTRONIC SALES AND SERVICE TECHNICIAN

2. DOT: 828.251-010

3. CIP: 15.0303, 15.0402, 47.0103, 47.0104, 47.0105

4. OES Code: 22122505

5. Number: 5
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $11.00 per hour

8. Minimum Qualifications (age, education, etc.): Previous work experience and/or post high school Electronics Technology training preferred.

9. Physical Requirements: Good eye-hand coordination; Ability to notice and compare differences in objects; Color discretion.

10. Related Classroom Training: Minimum 144 hours yearly recommended (may be through vo-tech or correspondence course or individual manufacturers' courses).

11. Helpful (pretraining) School Subjects: Math, Physics, Blueprint Reading, Drafting, Electronics, English, Computer Programming, Machine Shop, Chemistry.

12. Licensing Requirements (reference only): Federal Communications Commission (FCC) licensing may be required by some employers.

13. Union Affiliation:

14. Additional Information: Frequent retraining may be necessary; Security clearance necessary in some cases; Number employed in Montana in 1984 was 456; Projected employment in 1990 is 482; Projected annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: ELECTRONICS MECHANIC APPRENTICE

2. DOT: 828.281-014

3. CIP: 15.0402, 47.0103, 47.0104, 47.0105

4. OES Code: 22939099

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $11.00 per hour

8. Minimum Qualifications (age, education, etc.): One or two years of post high school training in Electronics or Electrical Engineering preferred; May require aptitude test.

9. Physical Requirements: Excellent eyesight; Color discretion; Normal hearing; Good eye-hand coordination; Manual dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (may be through vo-tech or correspondence course).

11. Helpful (pretraining) School Subjects: Math (esp. Algebra and Trigonometry), Electronics, Computer Programming, Electrical Theory, Blueprint Reading, Chemistry, Machine Shop.

12. Licensing Requirements (reference only): FCC licensing required in some jobs.

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Hobbies involving electronics (ham or CB radios, building stereo equipment) provide experience; In some cases, applicants must obtain security clearance; Frequent retraining required; Number employed in Montana in 1984 as technicians (no detail) was 123; Projected employment in 1990 is 130; Projected annual openings are 5.

15. Other:

APPRENTICESHIPS

1. Title: ELECTRONICS TECHNICIAN

2. DOT: 003.161-014

3. CIP: 15.0303

4. OES Code: 22122505

5. Number: 5
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $10.85 per hour

8. Minimum Qualifications (age, education, etc.): Previous work experience and/or post high school Electronics Technology training preferred.

9. Physical Requirements: Good eye-hand coordination; Ability to notice and compare differences in objects; Color discretion.

10. Related Classroom Training: Minimum 144 hours yearly recommended (may be through vo-tech or correspondence course or through individual manufacturers' courses).

11. Helpful (pretraining) School Subjects: Math, Physics, Blueprint Reading, Drafting, Electronics, English, Computer Programming, Machine Shop, Chemistry.

12. Licensing Requirements (reference only): Federal Communications Commission (FCC) licensing may be required by some employers.

13. Union Affiliation:

14. Additional Information: Frequent retraining may be necessary; Security clearance necessary in some cases; Valid driver's license may be required; Travel may be necessary; Number employed in Montana in 1984 as electrical and electronic technicians was 456; Projected employment in 1990 is 482; Projected annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: ENVIRONMENTAL CONTROL SYSTEM INSTALLER-SERVICER

2. DOT: 637.261-014

3. CIP: 47.0203

4. OES Code: 77285902

5. Number: 3
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$11.15 per hour

8. Minimum Qualifications (age, education, etc.): Minimum 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Mechanical ability; Good eye-hand coordination; Finger dexterity; Stamina.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Shop Electronics, Electricity, Welding, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Association of Plumbers and Pipefitters; Sheet Metal Workers' International Assocation

14. Additional Information: Evening and weekend work necessary in emergencies; Overtime work common during summer and winter; Number employed in Montana in 1984 as heating, air conditioning, and refrigeration mechanics was 459; Projected employment in 1990 is 462; Projected annual openings are 12.

15. Other:

APPRENTICESHIPS

1. Title: ESTIMATOR AND DRAFTER

2. DOT: 019.261-014

3. CIP: 15.0202, 48.0102, 48.0103, 48.0104

4. OES Code: 22122512

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$10.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Finger dexterity; Good eyesight; Ability to visualize and draw three dimensional objects.

10. Related Classroom Training: Minimum 144 hours annual preferred.

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Art, Math, English, Graphics, Physical Sciences, Drafting, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Many employers require post-secondary technical education; Employment fluctuates with building industry; Number employed in Montana in 1984 as drafters was 483; Projected employment in 1990 is 515; Projected annual openings are 21.

15. Other:

APPRENTICESHIPS

1. Title: FARM EQUIPMENT MECHANIC APPRENTICE

2. DOT: 624.281-014

3. CIP: 01.0204

4. OES Code: 77285321

5. Number: 6
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $9.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school diploma or equivalent preferred; May require aptitude test.

9. Physical Requirements: Mechanical aptitude; Manual dexterity; Ability to lift and move heavy weights.

10. Related Classroom Training: Minimum 144 hours yearly recommended (often through a vo-tech or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Welding, Blueprint Reading, Math, Gas and Diesel Mechanics, Auto Mechanics, Machine Shop.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Technical training in electronics becoming important; Farm background an advantage when seeking employment; Previous experience and training in diesel and gas engines, maintenance and repair of hydraulics, and welding stressed by employers; Vo-tech grads preferred over high school experience; May travel to farms to make emergency repairs; Number employed in Montana in 1984 was 322; Projected employment in 1990 is 310; Projected annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: FIRE FIGHTER

2. DOT: 373.364-010

3. CIP: 43.0203

4. OES Code: 55363008

5. Number: 14 (Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$10.00 per hour

8. Minimum Qualifications (age, education, etc.): Must be younger than 34 years of age; 18 years of age minimum preferred; High school diploma or equivalent preferred; Aptitude tests required--both written and physical tests of strength, stamina and agility.

9. Physical Requirements: Excellent physical condition; Mechanical aptitude; Stamina; Agility.

10. Related Classroom Training: Minimum 144 hours annually recommended.

11. Helpful (pretraining) School Subjects: Physical Education, First Aid, Sciences, Shop Courses, Cardio-Pulmonary Resuscitation (CPR).

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Firefighters (AFL-CIO)

14. Additional Information: Usually on duty 24 hours, then off duty 48 hours; Taking Emergency Medical Technician (EMT) training may be helpful in getting a job; Experience in building trades or truck driving is also helpful; Number employed in Montana in 1984 was 582; Projected employment in 1990 is 597; Projected annual openings are 12.

15. Other:

APPRENTICESHIPS

1. Title: FLOOR LAYER APPRENTICE

2. DOT: 864.481-014

3. CIP: 46.0405

4. OES Code: 44858099

5. Number: 4
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$9.00 - $14.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Strong back, legs, and knees; Ability to carry heavy weights; Mechanically inclined.

10. Related Classroom Training: None

11. Helpful (pretraining) School Subjects: Mechanical Drawing, Math, English, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Brotherhood of Carpenters and Joiners of America; International Brotherhood of Painters and Allied Trades

14. Additional Information: Trade hazards include knee ailments, colds and rheumatism; Nationally in 1976, one out of four was self-employed; Often requires a valid driver's license; Most employment opportunities are in large cities; May require travel; Number employed in Montana in 1984 as material workers (no detail) was 622; Projected employment in 1990 is 620; Projected annual openings are 20.

15. Other:

APPRENTICESHIPS

1. Title: FRONT-END MECHANIC

2. DOT: 620.281-038

3. CIP: 47.0604

4. OES Code: 77285301

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$5.00 - $7.00 per hour

8. Minimum Qualifications (age, education, etc.): 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorary discharge if veteran.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechanics, Machine Shop, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Career advancement opportunities limited; Union shops more prevalent in larger communities; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other:

APPRENTICESHIPS

1. Title: FURNITURE FINISHER APPRENTICE

2. DOT: 763.381-014

3. CIP: 48.0702

4. OES Code: 77489314

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$8.25 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Manual dexterity; Coordination; Able to lift heavy weights; Good eyesight and color perception.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop Courses, Home Economics.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Many self-employed; Work areas may be dusty; Number employed in Montana in 1984 was 14; Projected employment in 1990 is 15; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: FURNITURE UPHOLSTERER APPRENTICE

2. DOT: 780.381-022

3. CIP: 48.0303

4. OES Code: 77489508

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Manual dexterity; Coordination; Able to lift heavy weights; Good eyesight and color perception.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Home Economics, Math, Mechanical Drawing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Upholsterers International Union of North America (see #15 below for address).

14. Additional Information: Many self-employed; Work areas may be dusty; Often furnish own hand tools; Union generally represents upholsterers employed in factories; Number employed in Montana in 1984 was 125; Projected employment in 1990 is 148; Projected annual openings are 9.

15. Other: Upholsterers International Union of North America, 25 N. Fourth Street, Philadelphia, PA 19106.

APPRENTICESHIPS

1. Title: GAS APPLIANCE SERVICER

2. DOT: 637.261-018

3. CIP: 43.0106

4. OES Code: 77285709

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$13.02 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation preferred; May require an aptitude test.

9. Physical Requirements: Mechanical ability; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (often through a correspondence course or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Applied Electrical Shop, Physics, English, Math, Mechanical Drawing, Welding, Metal Shop, Public Speaking.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Need a record of honesty and respect for the law; Often need a commercial driver's license and good driving record; Varied working hours; Frequent retraining; Number of job openings few; Often requires travel; Number employed in Montana in 1984 as home appliance repairers was 332; Projected employment in 1990 is 349; Projected annual openings are 14.

15. Other:

APPRENTICESHIPS

1. Title: GAS MAIN FITTER (UTILITY)

2. DOT: 862.361-014

3. CIP: 46.0503

4. OES Code: 77795099

5. Number: 9
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$14.49 per hour

8. Minimum Qualifications (age, education, etc.): 17 years old; High school grad or equivalent.

9. Physical Requirements: Good physical condition; Mechanical aptitude.

10. Related Classroom Training: 144-216 hours annually.

11. Helpful (pretraining) School Subjects: English, Math (especially Algebra and Geometry), Drafting, Auto mechanics, Welding, Wood and Metal Shops, Chemistry, Physics.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Considerable mechanical aptitude needed; Number employed in 1984 in plant and system occupations (no detail) was 292; Projected employment in 1990 is 301; Projected annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: GEOPHYSICAL PROSPECTOR

2. DOT: 024.061-026

3. CIP: 14.1601, 40.0603

4. OES Code: 22224111

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$7.39 per hour

8. Minimum Qualifications (age, education, etc.): Bachelor's degree required for beginning positions in field.

9. Physical Requirements: Stamina; Agility; High intellectual and mathematical ability; Good attention for detail.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Chemistry, Geology, English.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Master's degree may be required for many positions; Field experience enhances employment opportunities; Computer background can help advancement; Number employed in Montana in 1984 as geophysicists was 295; Projected employment in 1990 is 337; Projected annual openings are 14.

15. Other:

APPRENTICESHIPS

1. Title: GLAZIER APPRENTICE

2. DOT: 865.381-014

3. CIP: 46.0406

4. OES Code: 77387811

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$9.00 - $14.84 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or vo-tech grad preferred.

9. Physical Requirements: Good physical condition; Stamina; Agility; Good balance; Good eye-hand coordination.

10. Related Classroom Training: Minimum 144 hours annually recommended.

11. Helpful (pretraining) School Subjects: Math, Blueprint Reading, Mechanical Drawing, General Construction, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Painters and Allied Trades

14. Additional Information: Often requires a valid driver's license; Glass now popular in building design; Most workers provide own hand tools; Number employed in Montana in 1984 was 162; Projected employment in 1990 is 175; Projected annual openings are 6.

15. Other:

APPRENTICESHIPS

1. Title: GRINDER OPERATOR, TOOL

2. DOT: 603.280-018

3. CIP: 48.0503

4. OES Code: 77591114

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Aptitude test required.

9. Physical Requirements: Good hand and wrist movement and usage; Good vision; Ability to visualize two and three dimension objects and to make visual comparisons.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Blueprint Reading, Machine Shop.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Risk injury from cutting tools, moving machinery, and abrasive dust; Number employed in Montana in 1984 was 21; Projected employment in 1990 is 22; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: GUNSMITH

2. DOT: 632.281-010

3. CIP: 47.0402

4. OES Code: 77285905

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent required; Experience in related jobs or training preferred.

9. Physical Requirements: Mechanical ability; Manual dexterity; Eye-hand coordination; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop Courses, Math, Physics, Chemistry.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Usually provide own tools; Number employed in Montana in 1984 as precision instrument repairers was 87; Projected employment is 1990 is 87; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: HOUSEHOLD APPLIANCE INSTALLER

2. DOT: 827.661-010

3. CIP: 47.0106

4. OES Code: 77285799

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
NOT AVAILABLE

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation preferred; May require an aptitude test.

9. Physical Requirements: Mechanical ability; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (often through a correspondence course or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Applied Electrical Shop, Public Speaking.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Need a record of honesty and respect for the law; Often need a commercial driver's license and good driving record; Varied working hours; Frequent retraining; Number of job openings few; Often requires travel; Number employed in Montana in 1984 as electrical mechanics was 199; Projected employment in 1990 is 210; Projected annual openings are 8.

15. Other:

APPRENTICESHIPS

1. Title: HYDROELECTRIC STATION OPERATOR (UTILITY)

2. DOT: 952.362-018

3. CIP: 47.0502

4. OES Code: 77795099

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$15.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduation or equivalent preferred.

9. Physical Requirements: Mechanical ability; Manual dexterity; Good physical condition; Good vision; Good hearing.

10. Related Classroom Training: Minimum 144 hours annually preferred.

11. Helpful (pretraining) School Subjects: Chemistry, Physics, Mechanical Drawing, Machine Shop, Applied Electricity.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Shift work common; Number employed in Montana in 1984 in plant and system occupations (no detail) was 292; Projected employment in 1990 is 301; Projected annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: INSTRUMENTATION TECHNICIAN

2. DOT: 003.261-010

3. CIP: 15,0403, 15.0404

4. OES Code: 77795099

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$11.78 - 12.44 per hour

8. Minimum Qualifications (age, education, etc.): Previous work experience and/or post high school Electronics Technology training preferred.

9. Physical Requirements: Good eye-hand coordination; Ability to notice and compare differences in objects; Color discretion.

10. Related Classroom Training: Minimum 144 hours yearly recommended (may be through vo-tech or correspondence course).

11. Helpful (pretraining) School Subjects: Math, Physics, Blueprint Reading, Drafting, Electronics, English, Computer Programming, Machine Shop, Chemistry.

12. Licensing Requirements (reference only): Federal Communications Commission (FCC) licensing may be required by some employers.

13. Union Affiliation:

14. Additional Information: Frequent retraining may be necessary; Security clearance necessary in some cases; Number employed in Montana in 1984 in plant and system occupations (no detail) was 292; Projected employment in 1990 is 301; Project annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: INSTRUMENT-MAKER APPRENTICE (DENTAL)
2. DOT: 600.280-018
3. CIP: 48.0503
4. OES Code: 77489921
5. Number: 0 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $8.57 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate preferred.
9. Physical Requirements: Manual dexterity; Good eye-hand coordination.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Math, Physics, Blueprint Reading, Chemistry, Metallurgy, Electronics, Algebra, Geometry, Trigonometry, Machine Shop.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation:
14. Additional Information: Apprenticeships in Montana available only through American Dental Manufacturing Company, 2800 Reserve, Missoula 59801; Number employed in Montana in 1984 was 48; Projected employment in 1990 is 53; Projected annual openings are 3.
15. Other:

APPRENTICESHIPS

1. Title: INSTRUMENT TECHNICIAN (UTILITY)

2. DOT: 710.281-030

3. CIP: 15,0403, 15.0404, 47.0401, 47.0502

4. OES Code: 77795099

5. Number: 0 (Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$15.91 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent required.

9. Physical Requirements: Mechanical ability; Ability to deal with stress; Average use of hands and fingers; Average vision and hearing.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Physics, Sciences, Math, Engineering.

12. Licensing Requirements (reference only): License from the Nuclear Regulatory Commission required. See #15 below.

13. Union Affiliation:

14. Additional Information: There are no nuclear power plants in Montana, therefore limiting Instrument Technician positions; Number employed in Montana in 1984 in plant and system occupations (no detail) was 292; Projected employment in 1990 is 301; Projected annual openings are 9.

15. Other: Applicants must have experience and pass an oral and written test along with a physical exam. The license must be renewed with the Nuclear Regulatory Commission every 2 years because of rapid technological changes.

APPRENTICESHIPS

1. Title: JEWELER APPRENTICE
2. DOT: 700.281-014
3. CIP: 48.0602
4. OES Code: 77489123
5. Number: 3 (Active Apprentices in State)
6. Length of Program: 2 1/2 years
7. Wages: Average Wage Range for Journeyworker: $7.00 - $8.00 per hour
8. Minimum Qualifications (age, education, etc.): Experience and/or some post-secondary training preferred.
9. Physical Requirements: Good finger dexterity; Spacial ability; Form perception; Average mechanical ability; Personable.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Gemology, Mechanical Training, Physical Sciences.
12. Licensing Requirements (reference only): Certification as watchmaker not required, but can be obtained through the American Watchmakers Institute (see #15 below).
13. Union Affiliation:
14. Additional Information: Some jewelers wait on customers; Business and Gemology courses may be helpful; Highly competitive field; Those who can repair watches have an advantage since watch repairs account for much of the business in small stores; Number employed in Montana in 1984 as jewelers and silversmiths was 72; Projected employment in 1990 is 84; Projected annual openings are 7.
15. Other: American Watchmakers' Institute, P.O. Box 11011, Cincinnati, Ohio 45211.

APPRENTICESHIPS

1. Title: JOB PRINTER APPRENTICE

2. DOT: 973.381-022

3. CIP: 48.0205

4. OES Code: 44656005

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
NOT AVAILABLE

8. Minimum Qualifications (age, education, etc.): 17 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Eye-hand coordination; Manual dexterity; Ability to lift up to 100 pounds.

10. Related Classroom Training: Minimum 144 hours annually recommended.

11. Helpful (pretraining) School Subjects: English, Graphic Arts, Math, Basic Electronics, Photography.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Billings-Missoula Printing and Graphics Communications Union (AFL-CIO); International Printing and Communications Union

14. Additional Information: Noisy work; During busy periods overtime is common; Number employed in Montana in 1984 as duplicating machine operators was 60; Projected employment in 1990 is 64; Projected annual openings are 3.

15. Other:

APPRENTICESHIPS

1. Title: LAND SURVEYOR

2. DOT: 018.167-018

3. CIP: 15.0201, 15.0203

4. OES Code: 22122309

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$9.75 per hour

8. Minimum Qualifications (age, education, etc.): Prefer post-secondary training in vo-tech or college.

9. Physical Requirements: Good eyesight; Good physical condition; Good coordination; Good hearing; Able to carry heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Algebra, Geometry, Trigonometry, Drafting, Mechanical Drawing, Engineering Technologies, English.

12. Licensing Requirements (reference only): See Attachment.

13. Union Affiliation:

14. Additional Information: Many enter field as Instrument Assistants or Surveyor's Helpers; Work in all kinds of weather; May require travel and living in camp conditions; Number employed in Montana in 1984 was 379; Projected employment in 1990 is 400; Projected annual openings are 16.

15. Other:

LICENSING INFORMATION

1. Job Title LAND SURVEYOR DOT: 018.167-018

2. Licensing agency Montana Board of Professional Engineers & Land Surveyors

3. License application procedure Contact office listed below

   Office Department of Commerce, Professional and Occupational Licensing Bureau

   Address 1424 Ninth Avenue

   Helena, Montana 59620

   Telephone 444-4285

4. Fees:

   Application and Exams Fee $40.00 (Land Surveyor in Training)

   Renewal fee $40.00 biennially

5. Exam information Given twice per year; register by July 3 for October exam, and by December 10 for April exam.

6. Experience and Education Required: Bachelor of Science degree with at least 2 years combined office and field experience in surveying, with a minimum of 1 year in charge of land surveying projects under supervision of a professional land surveyor; OR 2 years of formal education in an approved curriculum above high school level with at least 90 quarter hours, and at least 4 years of combined office and field experience in land surveying, with a minimum of 2 years in charge of land surveying projects under supervision of a professional land surveyor; OR present evidence satisfactory to the board of at least 6 years of combined office and field experience in land surveying, with a minimum of 4 years of experience in charge of land surveying projects in Montana under the supervision of a professional land surveyor.

7. Other

APPRENTICESHIPS

1. Title: LINE-ERECTOR APPRENTICE (UTILITY)
2. DOT: 821.361-030
3. CIP: 46.0303
4. OES Code: 77285723
5. Number: 1 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages: Average Wage Range for Journeyworker: $12.50 - $15.00 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Background in mathematics; Good physical condition; Aptitude test may be required.
9. Physical Requirements: Good physical condition; Good use of hands and fingers; Manual dexterity; Color discrimination; Ability to lift heavy objects and work in high places.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Math, Electronics, Electrical Theory, Physical Education, Blueprint Reading.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Brotherhood of Electrical Workers
14. Additional Information: Considerable danger of falls or burns; Employment requires constant retraining; Often provide own belt, tools, and boots (approx. $450); Number employed in Montana in 1984 as electrical powerline installers was 562; Projected employment in 1990 is 561; Projected annual openings are 7.
15. Other:

APPRENTICESHIPS

1. Title: LINE INSTALLER-REPAIRER (PHONE)

2. DOT: 822.381-014

3. CIP: 46.0303

4. OES Code: 77285702

5. Number: 16
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$14.39 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school diploma or equivalent preferred; May require aptitude test and math background.

9. Physical Requirements: Excellent health; Ability to lift heavy objects; Good color discretion; Strong; Ability to work in high places.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Electrical Theory, Electronics, Math (especially Algebra), Physical Education.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Requires constant retraining; May work long and irregular hours; Inexperienced workers often hired; Number employed in Montana in 1984 as telephone and cable TV installers was 322; Projected employment in 1990 is 313; Projected annual openings are 3.

15. Other:

APPRENTICESHIPS

1. Title: LINE MAINTAINER (UTILITY)

2. DOT: 821.261-014

3. CIP: 46.0303

4. OES Code: 77285799

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$12.50 - $15.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Background in mathematics; Good physical condition; Aptitude test may be required.

9. Physical Requirements: Good physical condition; Good use of hands and fingers; Manual dexterity; Color discrimination; Ability to lift heavy objects and work in high places.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Electronics, Electrical Theory, Physical Education, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Considerable danger of falls or burns; Employment requires constant retraining; May work long and irregular hours; Number employed in Montana in 1984 as electrical mechanics was 199; Projected employment in 1990 is 210; Projected annual openings are 8.

15. Other:

APPRENTICESHIPS

1. Title: LINE REPAIRER (UTILITY)

2. DOT: 821.361-026

3. CIP: 46.0303

4. OES Code: 77285799

5. Number: 28
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$15.91 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Background in mathematics; Good physical condition; Aptitude test may be required.

9. Physical Requirements: Good physical condition; Good use of hands and fingers; Manual dexterity; Color discrimination; Ability to lift heavy objects and work in high places.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Electronics, Electrical Theory, Physical Education, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Considerable danger of falls or burns; Employment requires constant retraining; May work long and irregular hours; Number employed in Montana in 1984 as electrical mechanics was 199; Projected employment in 1990 is 210; Projected annual openings are 8.

15. Other:

APPRENTICESHIPS

1. Title: LOCKSMITH APPRENTICE

2. DOT: 709.281-014

3. CIP: 47.0403

4. OES Code: 77285923

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent required; Related experience or training preferred.

9. Physical Requirements: Mechanical ability; Manual dexterity; Eye-hand coordination; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop Courses, Math, Physics, Chemistry.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Usually provide own tools; Number employed in Montana in 1984 as locksmiths and safe repairers was 1; Projected employment in 1990 is 1; There are no projected annual openings.

15. Other:

APPRENTICESHIPS

1. Title: MACHINIST APPRENTICE

2. DOT: 600.280-026

3. CIP: 48.0503

4. OES Code: 77489108

5. Number: 8
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Aptitude test required.

9. Physical Requirements: Above average use of hands and eye-hand coordination; Ability to follow complex directions.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Machine Shop, Mechanical Drawing, Drafting, Blueprint Reading, Metallurgy.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Risk injury from high speed cutting tools, moving machinery, metal chips, and abrasive dust; Must supply own tools; Number employed in Montana in 1984 was 613; Projected employment in 1990 is 663; Projected annual opeings are 26.

15. Other:

APPRENTICESHIPS

1. Title: MACHINIST, AUTOMOTIVE

2. DOT: 600.280-034

3. CIP: 48.0503

4. OES Code: 77489108

5. Number: 3
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 year old preferred; High school diploma or equivalent preferred; May require aptitude test.

9. Physical Requirements: Good vision; Normal health; Good eye-hand coordination; Mechanical aptitude.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Shops, Mechanical Drawing, Electronics.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Internal Association of Machinists and Aerospace Workers

14. Additional Information: Risk injury from high speed cutting tools, moving machinery, metal chips, and abrasive dust; Number employed in Montana in 1984 as machinists was 613; Projected employment in 1990 is 663; Projected annual openings are 26.

15. Other:

APPRENTICESHIPS

1. Title: MACHINIST, WOOD

2. DOT: 669.380-014

3. CIP: 48.0703

4. OES Code: 77489308

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $6.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Aptitude test required.

9. Physical Requirements: Above average use of hands and eye-hand coordination; Ability to follow complex directions.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Machine Shop, Mechanical Drawing, Drafting, Blueprint Reading, Metallurgy.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Risk injury from high speed current tools, moving machinery, metal chips, and abrasive dust; Must supply own tools; Number employed in Montana in 1984 was 60; Projected employment in 1990 is 57; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: MAINTENANCE MECHANIC

2. DOT: 638.281-014

3. CIP: 47.0303

4. OES Code: 77285128

5. Number: 4
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $9.86 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school grad or equivalent preferred; May require aptitude test.

9. Physical Requirements: Mechanical aptitude; Manual dexterity; Good physical condition; Agility; Ability to lift heavy objects and climb on to large equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shops, Mechanical Drawing, Math, Applied Physical Sciences, Welding, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Frequent retraining required; Union affiliation depends on type of industry employment; Number employed in Montana in 1984 as machinery maintenance workers was 402; Projected employment in 1990 is 391; Projected annual openings are 9.

15. Other:

APPRENTICESHIPS

1. Title: MAINTENANCE REPAIRER, BUILDING

2. DOT: 899.381-010

3. CIP: 01.0205, 46.0401

4. OES Code: 55767099

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $9.86 per hour

8. Minimum Qualifications (age, education, etc.): Related work experience preferred.

9. Physical Requirements: Ability to lift and carry up to 50 pounds; Stamina; General good health; Mechanical ability.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Electrical, Plumbing, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Related work experience often necessary; Number employed in Montana in 1984 in building service occupations (no detail) was 861; Projected employment in 1990 is 920; Projected annual openings are 38.

15. Other:

APPRENTICESHIPS

1. Title: MEAT-CUTTER APPRENTICE

2. DOT: 316.684-022

3. CIP: 48.0402

4. OES Code: 77489801

5. Number: 16
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 - $9.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school grad or equivalent preferred.

9. Physical Requirements: Stamina; Good color discretion; General good health; Agility; Free of communicable diseases; Good manual dexterity; Strong back; Able to work in low temperatures for long periods on feet; Good eye-hand coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Speech, Biology, Metal Shop, Typing, English, Math, Retail Merchandising, Zoology, Marketing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Amalgamated Meat Cutters and Butcher Workers of North America

14. Additional Information: Must usually pass a meatcutting test to become a journeyworker; Number employed in Montana in 1984 as butchers, meatcutters, and slaughterers was 750; Projected employment in 1990 is 699; Projected annual openings are 22.

15. Other:

APPRENTICESHIPS

1. Title: MECHANIC, INDUSTRIAL TRUCK

2. DOT: 620.281-050

3. CIP: 47.0302, 47.0605

4. OES Code: 77285311

5. Number: 5
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $12.50 per hour

8. Minimum Qualifications (age, education, etc.): High school or vo-tech graduate preferred; 18 years old preferred.

9. Physical Requirements: Good physical condition; Able to lift heavy weights; Good manual dexterity.

10. Related Classroom Training: Minimum 144 hours annually preferred (often through a vo-tech or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Auto Mechanics, Mechanical Drawing, Physics, Welding, Math, Blueprint Reading, Basic Electricity, Machine Shop.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Worker provides own hand tools; Vo-tech or automobile mechanic experience preferred; Number employed in Montana in 1984 as bus, truck, and heavy equipment mechanics was 1,138; Projected employment in 1990 is 1,197; Projected annual openings are 40.

15. Other:

APPRENTICESHIPS

1. Title: MEDICAL TECHNOLOGIST

2. DOT: 078.361-014

3. CIP: 17.0302, 17.0307, 17.0310

4. OES Code: 22732902

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$8.64 per hour

8. Minimum Qualifications (age, education, etc.): High school graduation required; Attendance at an accredited clinical program preferred.

9. Physical Requirements: Finger and manual dexterity; Good verbal and numerical ability.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Sciences, Mathematics.

12. Licensing Requirements (reference only): Medical technologists and technicians are certified after completing an approved training program and passing an exam. See #15 below.

13. Union Affiliation:

14. Additional Information: Medical technicians can advance to technologists by getting additional education and experience; Workers are exposed to unpleasant odors and diseased specimens; Some evening and weekend work may be required; Number employed in Montana in 1984 was 482; Projected employment in 1990 is 501; Projected annual openings are 17.

15. Other: 1) Medical Technologist, MT (ASCP), by the Board of Registry of the American Society of Clinical Pathologists; 2) Medical Technologist, MT, by the American Medical Technologists; 3) Clinical Laboratory Scientist, CLS, by the National Certification Agency for Medical Laboratory Personnel; 4) Registered Medical Technologists, RMT, by the International Society of Clinical Laboratory Technology. These agencies also certify medical technicians. For more information, contact the American Society of Clinical Pathologists, Board of Registry, P.O. Box 12270, Chicago, IL 60612.

APPRENTICESHIPS

1. Title: METAL FABRICATOR APPRENTICE

2. DOT: 619.360-018

3. CIP: 48.0504

4. OES Code: 77591714

5. Number: 6
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$11.15 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduation or equivalent required.

9. Physical Requirements: Average numerical ability; Finger and manual dexterity; Good physical condition; Mechanical aptitude; High degree of precision; Ability to work in high places.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop, Mechanical Drawing, Welding, Math.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Sheet Metal Workers' International Association

14. Additional Information: Competition keen; Noisy work environment; Number employed in Montana in 1984 as structural metal fabricators was 333; Projected employment in 1990 is 369; Projected annual openings are 15.

15. Other: For information on nature of work, wages, methods of preparation, and on-the-job training, write the National Training Fund, Sheet Metal and Air Conditioning Industry, 1900 L Street NW, Suite 405, Washington, DC 20036.

APPRENTICESHIPS

1. Title: MILLWRIGHT APPRENTICE

2. DOT: 638.281-022

3. CIP: 47.0303

4. OES Code: 77285123

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$9.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; On-the-job training or seniority required.

9. Physical Requirements: Ability to lift and carry up to 50 pounds; Mechanical ability; Above-average manual dexterity and strength; Good finger dexterity and motor coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop, Mechanical Drawing, Blueprint Reading, Physical Sciences, Math, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Not an entry-level occupation; Around heavy equipment; Union Union affiliation depends on type of industry employment; Employment requires frequent retraining; Number employed in Montana in 1984 was 314; Projected employment in 1990 is 294; Projected annual openings are 6.

15. Other:

APPRENTICESHIPS

1. Title: MOLDER, PATTERN

2. DOT: 693.381-022

3. CIP: 48.0505

4. OES Code: 77693944

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred.

9. Physical Requirements: Average spacial perception; Finger and manual dexterity; Eye-hand coordination; Good vision; Physical strength.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop Arithmetic, Metallurgy, Shop Drawing, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Molders and Allied Workers Union

14. Additional Information: Often exposed to heat, fumes, smoke, and hazards; Most molders purchase own tools; Some applicants gain related work experience as a molder's helper; Number employed in Montana in 1984 as molders and casters was 3; Projected employment in 1990 is 3; There are no projected annual openings.

15. Other:

APPRENTICESHIPS

1. Title: MOTORBOAT MECHANIC

2. DOT: 623.281-038

3. CIP: 49.0306

4. OES Code: 77285328

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Able to lift and carry up to 100 pounds; Mechanical aptitude; Manual dexterity; Good eyesight and hearing; Motor coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Machine Shop, Auto Mechanics, Math, Metal Shop, Small Engine Repair, Sciences.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Provide own hand tools; Often seasonal work; Number employed in Montana as small engine specialists was 106; Projected employment in 1990 is 116; Projected annual openings are 5.

15. Other:

APPRENTICESHIPS

1. Title: MOTORCYCLE REPAIRER

2. DOT: 620.281-054

3. CIP: 47.0606

4. OES Code: 77285301

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $6.25 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Able to lift and carry up to 100 pounds; Mechanical aptitude; Manual dexterity; Good eyesight and hearing; Motor coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Machine Shop, Auto Mechanics, Math, Metal Shop, Small Engine Repair, Sciences.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Provide own hand tools; Must be able to obtain a motorcycle driver's license; Often seasonal work; May work as a snowmobile repairer in winter; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other:

APPRENTICESHIPS

1. Title: OFFICE MACHINE SERVICER APPRENTICE

2. DOT: 633.281-022

3. CIP: 47.0102

4. OES Code: 77285926

5. Number: 5
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 - $8.00 per hour

8. Minimum Qualifications (age, education, etc.): Prefer high school graduation plus at least one year technical training in Electronics and Electricity; May require aptitude test.

9. Physical Requirements: Manual dexterity; Good vision; Good color discretion; Good hearing.

10. Related Classroom Training: Minimum 144 hours annually preferred (often provided through correspondence courses or special training set up by individual manufacturers).

11. Helpful (pretraining) School Subjects: Algebra, Speech, Shop Courses, English, Electronics, Sales, Electricity.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Usually need a valid driver's license; Work available in both small and large towns; May be required to be bonded; Must have a record of honesty; Occupation requires frequent retraining; Year-round employment; Opportunities for employment and advancement increase with training in electronics; May require travel; Number employed in Montana in 1984 was 215; Projected employment in 1990 is 263; Projected annual openings are 12.

15. Other:

APPRENTICESHIPS

1. Title: OFFSET PRESS OPERATOR APPRENTICE

2. DOT: 651.482-014

3. CIP: 48.0208

4. OES Code: 77592512

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$7.25 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Good eyesight; Manual dexterity; Ability to lift up to 100 pounds.

10. Related Classroom Training: Minimum 144 hours yearly recommended (off correspondence).

11. Helpful (pretraining) School Subjects: Graphic Arts, English, Math, Chemistry, Physics, Mechanical Drawing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Billings-Missoula Printing and Graphics Communications Union (AFL-CIO); International Printing and Graphic Communications Union

14. Additional Information: Noisy work; Work under pressure to meet deadlines; Union shops only work through apprenticeship training programs; Offset printing is the fastest growing method of printing; Offset printing plates weigh much less than plates used for older kinds of printing, so work is becoming much less demanding physically; Number employed in Montana in 1984 as offset lithographic press setters was 115; Projected employment in 1990 is 122; Projected annual openings are 4.

15. Other:

APPRENTICESHIPS

1. Title: OPERATING ENGINEER APPRENTICE

2. DOT: 859.683-014

3. CIP: 49.0202, 49.0204

4. OES Code: 77897956

5. Number: 22
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$14.60 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or equivalent degree required.

9. Physical Requirements: Stamina; Above average eye-hand-foot coordination; Able to work in considerable dust, dirt, and noise; Good health.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Auto Mechanics, Metal Shop, Drafting, Math, Physics, English, Speech, Welding, Electrical Shop.

12. Licensing Requirements (reference only): See next page.

13. Union Affiliation: International Brotherhood of Operating Engineers

14. Additional Information: Dangerous work; Experience in operating tractors and other farm machinery helpful; Extensive travel; Often laid off during winter; Number employed in Montana in 1984 was 1,253; Projected employment in 1990 is 1,220; Projected annual opeings are 25.

15. Other: For more information, write the American Society of Mechanical Engineers, United Engineering Center, 345 E. 47th St., New York, NY 10017.

LICENSING INFORMATION

1. Job Title OPERATING ENGINEER (HOISTING/CRANE OPERATOR) DOT : 859.683.014
2. Licensing agency Montana Department of Labor and Industry
3. License application procedure Contact office listed below

   Office Dept. of Labor & Industry, Division of Workers' Compensation

   Bureau of Safety and Health

   Address P.O. Box 4759

   Helena, Montana 59604

   Telephone 444-6401
4. Fees:

   License fee CRANES: HOISTING:

   1st class - $30 1st class - $30

   2nd class - $20 2nd class - $20

   3rd class - $12

   Exam fee One half license fee (non-refundable)

   Temporary license fee N/A

   Renewal fee $4 annually

   Replacement fee $2 if lost
5. Exam information Varies, can be given anytime in Helena; otherwise, when inspector is in your area.
6. Experience required See next page
7. Education N/A
8. Other Hoist and crane licenses require an annual physical exam.

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

SAFETY BUREAU
Division of Workers' Compensation

INFORMATION AND FEE SCHEDULE FOR
HOISTING, CRANE AND TRUCK CRANE OILER LICENSES

The following is for your information in determining the class and cost of the license, the experience required and the rated size of the equipment.

Each application is to be accompanied by ONE HALF (1/2) of the license fee. This payment shall be forfeited if applicant fails to appear for a scheduled examination or fails the test.

--CRANES--

CLASS/COST	MINIMUM EXPERIENCE	RATED SIZE
Third Class $12.00	Truck Crane Oilers	For oilers who move Truck Cranes
Second Class $20.00	2 years full time experience operating equipment with mfg. rating of 6 tons and boom length of 25 feet up to 15 tons and 60 feet of boom (Crane License requires annual Physical Exam)	
First Class $30.00	3 years full time experience operating equipment requiring a Second Class license. (Crane License requires annual Physical Exam)	Any hoisting equipment in industrial or construction operations

--HOISTING--

CLASS/COST	MINIMUM EXPERIENCE	RATED SIZE
Second Class $20.00	2 years experience under 1st or 2nd class engineer. (Hoist License requires annual Physical Exam)	Not in excess of 100 brake H.P.
First Class $30.00	3 years experience under a First Class engineer. (Hoist License requires annual Physical Exam)	All Classes

APPRENTICESHIPS

1. Title: OPTICAL INSTRUMENT ASSEMBLER

2. DOT: 711.381-010

3. CIP: 48.9999

4. OES Code: 77693199

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $8.80 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent required.

9. Physical Requirements: Good use of hands and fingers; Mechanical aptitude; Ability to visualize objects from pictures and to observe detail in objects.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Algebra, Physics, Mechanical Drawing, Electricity Shop, English, Business.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Opportunities best in metropolitan areas; Hobbies that include manual dexterity and attention to detail, such as fixing cameras, could be used as evidence of mechanical ability; Number employed in Montana in 1984 as precision assemblers (no detail) was 50; Projected employment in 1990 is 56; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: OPTICIAN APPRENTICE

2. DOT: 716.280-010

3. CIP: 15.0606, 48.9999

4. OES Code: 22732514

5. Number: 1 (Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.80 - $10.60 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent required.

9. Physical Requirements: Good use of hands and fingers; Mechanical aptitude; Ability to visualize objects from pictures and to observe detail in objects.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Algebra, Physics, Mechanical Drawing, Electricity Shop, English, Business.

12. Licensing Requirements (reference only): Opticians do not have to be certified in Montana, but can become certified nationally by taking the National Academy of Opticianry exam.

13. Union Affiliation:

14. Additional Information: Opportunities best in metropolitan areas; Hobbies that involve manual dexterity and attention to detail, such as fixing cameras, could be used as evidence of mechanical ability; Number employed in Montana in 1984 was 212; Projected employment in 1990 is 248; Projected annual openings are 13.

15. Other:

APPRENTICESHIPS

1. Title: PAINTER

2. DOT: 840.381-010

3. CIP: 46.0408

4. OES Code: 77387402

5. Number: 18
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$10.00 - $15.42 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Good eyesight; Good physical condition; Manual dexterity; Good color discretion; No allergies to paint or other chemical fumes; Strong arms; Good balance.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Art, Chemistry, English, Math, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Painters and Allied Trades

14. Additional Information: Nationally in 1976, one out of four was self-employed; Must be able to stand for long periods; Must be able to climb and bend; Exposed to paint and other chemical fumes; Number employed in Montana as painters and paperhangers was 392; Projected employment in 1990 is 385; Projected annual openings are 20.

15. Other:

APPRENTICESHIPS

1. Title: PAINTER, SIGN

2. DOT: 970.381-026

3. CIP: 48.0203

4. OES Code: 77387402

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $15.42 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Good eyesight; Good physical condition; Manual dexterity; Good color discretion; No allergies to paint or other chemical fumes; Strong arms; Good balance.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Art, Chemistry, English, Math, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Painters and Allied Trades

14. Additional Information: Must be able to stand for long periods; Must be able to climb and bend; Number employed in Montana in 1984 as painters and paperhangers was 392; Projected employment in 1990 is 385; Projected annual openings are 20.

15. Other:

APPRENTICESHIPS

1. Title: PHOTOENGRAVER APPRENTICE

2. DOT: 971.381-026

3. CIP: 48.0206

4. OES Code: 77592545

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
NOT AVAILABLE

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent preferred.

9. Physical Requirements: Eye-hand coordination; Mechanical aptitude; Good use of fingers and hands; Able to work under pressure.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Typing, English, Shop, Electronics, Photography.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: May be evening and weekend work; Some overtime may be required; Number employed in Montana in 1984 as photoengraving machine operators was 15; Projected employment in 1990 is 19; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: PHOTOGRAPHER, STILL

2. DOT: 143.062-030

3. CIP:

4. OES Code: 22834023

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.00 - $10.00 per hour

8. Minimum Qualifications (age, education, etc.): High school graduates preferred; Some college or vocational school background and experience preferred.

9. Physical Requirements: Good eyesight; Creativity; Accurate; Ability to work with people.

10. Related Classroom Training:

11. Helpful (pretraining) School Subjects: Bookkeeping, Photography, Marketing, Psychology.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Schedule may be irregular, including weekend and night work; Studios prefer applicants with lab and retouching skills; Applicants should prepare a portfolio of their best work; Number employed in Montana in 1984 was 117; Projected employment in 1990 is 125; Projected annual openings are 4.

15. Other:

APPRENTICESHIPS

1. Title: PINSETTER MECHANIC, AUTOMATIC

2. DOT: 638.261-022

3. CIP: 47.0109

4. OES Code: 77285799

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$5.75 - $6.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation preferred; May require an aptitude test.

9. Physical Requirements: Mechanical ability; Finger dexterity.

10. Related Classroom Training: Minimum 144 hours annually recommended.

11. Helpful (pretraining) School Subjects: Applied Electrical Shop, Physics, English, Math, Mechanical Drawing, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Varied working hours; Frequent retraining; Number of job openings few; Number employed in Montana in 1984 as electrical mechanics was 199; Projected employment in 1990 is 210; Projected annual openings are 8.

15. Other:

APPRENTICESHIPS

1. Title: PIPE FITTER APPRENTICE

2. DOT: 862.381-026

3. CIP: 46.0502

4. OES Code: 77387502

5. Number: 20
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$19.63 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; High school grad or equivalent; Aptitude test; Honorable discharge if veteran (for JATC).

9. Physical Requirements: Good physical condition; Mechanical aptitude.

10. Related Classroom Training: 144-216 hours annually.

11. Helpful (pretraining) School Subjects: English, Math (esp. Algebra and Geometry), Drafting, Auto mechanics, Welding, Wood and Metal Shops, Chemistry, Physics.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Association of Plumbers and Pipefitters

14. Additional Information: Considerable mechanical aptitude needed; May be seasonal work; Considerable travel; Number employed in Montana in 1984 as plumbers, pipefitters, and steamfitters was 846; Projected employment in 1990 is 835; Projected annual openings are 23.

15. Other:

APPRENTICESHIPS

1. Title: PLASTICS BENCH MECHANIC

2. DOT: 754.381-018

3. CIP: 48.0604

4. OES Code: 77591905

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): High school diploma or equivalent preferred; Factory experience or machine shop training preferred.

9. Physical Requirements: Good form perception; Manual dexterity; Mechanical ability.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Shop courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Rubber, Cork, Linoleum and Plastic Workers of America

14. Additional Information: May be exposed to odors and noise from machines; Number employed in Montana in 1984 as plastic molding and casting operators was 15; Projected employment in 1990 is 23; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: PLATER APPRENTICE

2. DOT: 500.380-014

3. CIP:

4. OES Code: 77591921

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
NOT AVAILABLE

8. Minimum Qualifications (age, education, etc.): High school graduation or equivalent preferred.

9. Physical Requirements: Good eye-hand coordination; Able to follow instructions and apply precise standards.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Electricity and Electronics, Metallurgy, Chemistry, Physics, Math.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: May be exposed to fumes; Swing shifts and weekend work common; Number employed in Montana in 1984 as electrolytic plating operators was 32; Projected employment in 1990 is 38; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: PLUMBER APPRENTICE

2. DOT: 862.381-034

3. CIP: 46.0503

4. OES Code: 77387502

5. Number: 53
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$9.50 - $19.63 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; High school grad or equivalent; Aptitude test; Honorable discharge if veteran (for JATC).

9. Physical Requirements: Good physical condition; Mechanical aptitude.

10. Related Classroom Training: 144-216 hours annually.

11. Helpful (pretraining) School Subjects: English, Math (especially Algebra and Geometry), Drafting, Auto mechanics, Welding, Wood and Metal Shops, Chemistry, Physics.

12. Licensing Requirements (reference only): See next page.

13. Union Affiliation: United Association of Plumbers and Pipefitters

14. Additional Information: Considerable mechanical aptitude needed; May be seasonal work; Considerable travel; Number employed in Montana in 1984 as plumbers, pipefitters, and steamfitters was 846; Projected employment in 1990 is 835; Projected annual openings are 23.

15. Other:

LICENSING INFORMATION

1. Job Title PLUMBER DOT: 862.381-034
2. Licensing agency Montana Board of Plumbers
3. License application procedure Contact office listed below

   Office Department of Commerce, Professional and Occupational Licensing Bureau

   Address 1424 Ninth Avenue

   Helena, Montana 59620

   Telephone 444-4245
4. Fees:

   Application fee $30.00

   License fee N/A

   Exam fee $95.00 (Paid after application has been approved)

   Temporary license fee N/A

   Renewal fee $85.00
5. Exam information Variable, applicants notified after submitting application and fee. Application must be turned in at least 60 days prior to examination date.
6. Experience required Four years experience as a Journeyworker Plumber.
7. Education Credit toward experience is given for time in trade school, vo-tech, or college, but cannot exceed 2 years.
8. Other Completion of apprenticeship program may be used in place of experience.

APPRENTICESHIPS

1. Title: POWERHOUSE MECHANIC APPRENTICE
2. DOT: 631.261-018
3. CIP: 47.0303, 47.0502, 47.0503
4. OES Code: 77795099
5. Number: 19 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $16.39 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old required; On-the-job training or seniority required.
9. Physical Requirements: Ability to lift and carry up to 50 pounds; Mechanical ability; Above-average manual dexterity and strength; Good finger dexterity and motor coordination.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Shop, Mechanical Drawing, Blueprint Reading, Physical Sciences, Math, Welding.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Association of Machinists and Aerospace Workers
14. Additional Information: Not an entry-level occupation; Around heavy, noisy equipment; Union affiliation depends on the type of industry employment; Employment requires frequent retraining; Number employed in Montana in 1984 in plant and system occupations (no detail) was 292; Projected employment in 1990 is 301; Projected annual openings are 9.
15. Other:

APPRENTICESHIPS

1. Title: POWER SAW MECHANIC

2. DOT: 625.281-030

3. CIP: 01.0203, 47.0606

4. OES Code: 77285118

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Mechanical aptitude; Manual dexterity; Good physical condition.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Small Engine Repair, Auto Mechanics, Machine Shop, Science, Math.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Provide own hand tools; Number employed in Montana in 1984 as plant machinery mechanics was 81; Projected employment in 1990 is 83; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: PRECISION LENS GRINDER APPRENTICE
2. DOT: 716.382-022
3. CIP: 15.0606
4. OES Code: 77591114
5. Number: 1 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $5.50 - $8.80 per hour
8. Minimum Qualifications (age, education, etc.): High school diploma or equivalent preferred; 18 years old preferred.
9. Physical Requirements: Ability to stand all day; Good manual dexterity; Coordination.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Mechanical Drawing, Math (especially Algebra and Geometry), Physics, Speech, English, Basic Electricity.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Union of Electrical, Radio & Machine Workers (AFL-CIO)
14. Additional Information: Requires precision and skill; Number employed in Montana in 1984 as grinding and buffing machine setters/operators was 21; Projected employment in 1990 is 22; Projected annual openings are 1.
15. Other:

APPRENTICESHIPS

1. Title: PRIVATE BRANCH EXCHANGE INSTALLER (PHONE)

2. DOT: 822.381-018

3. CIP: 47.0103

4. OES Code: 77285726

5. Number: 16
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$14.39 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school diploma or equivalent; JATC requires aptitude test; 1 year high school Algebra preferred.

9. Physical Requirements: Able to work in high places and below ground in cramped positions; Manual dexterity; Excellent health; Good vision; Acute hearing; Good color perception; Able to lift heavy weights.

10. Related Classroom Training: Minimum 144 hours annually preferred.

11. Helpful (pretraining) School Subjects: Electronics, Math, Physical Education, Electrical Theory.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Work on poles, on aerial ladders and platforms, in manholes, or in basements of large buildings; Requires constant retraining; May work long and irregular hours; Inexperienced workers often hired and trained; Number employed in Montana in 1984 as telephone station installers was 257; Projected employment in 1990 is 239; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: PROGRAMMER, ENGINEERING AND SCIENTIFIC

2. DOT: 020.167-022

3. CIP: 11.0201

4. OES Code: 22325111

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
NOT AVAILABLE

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent required.

9. Physical Requirements: Ability to organize ideas and data; Above average numerical ability and clerical perception.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Sciences, Computer Science and Programming, English, Business.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Some night or weekend work may be necessary; Continuous retraining necessary; Number employed in Montana in 1984 as numerical and tool programmers was 6; Projected employment in 1990 is 6; There are no projected annual openings.

15. Other:

APPRENTICESHIPS

1. Title: PROSTHETIST

2. DOT: 078.261-022

3. CIP: 17.0811

4. OES Code: 22732999

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.50 per hour

8. Minimum Qualifications (age, education, etc.): High school graduation or equivalent preferred; Related health training or education may be preferred.

9. Physical Requirements: Motor coordination; Manual and finger dexterity.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Health, Math, Biology, Sciences.

12. Licensing Requirements (reference only): Certification not necessary but is available (see #15 below).

13. Union Affiliation:

14. Additional Information: Work involves stooping and reaching; Number employed in Montana in 1984 as technical health professionals was 627; Projected employment in 1990 is 752; Projected annual openings are 42.

15. Other: American Board of Certification of AOPA, 717 Pendleton Street, Alexandria, VA 22314.

1. Title: REFRIGERATION MECHANIC

2. DOT: 637.261-026

3. CIP: 47.0202

4. OES Code: 77285902

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$10.00 - $19.63 per hour

8. Minimum Qualifications (age, education, etc.): Minimum 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Mechanical ability; Good eye-hand coordination; Finger dexterity; Stamina.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Shop Electronics, Electricity, Welding, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Association of Plumbers and Pipefitters; Sheet Metal Workers' International Association

14. Additional Information: Evening and weekend work necessary in emergencies; Overtime work common during summer and winter; Number employed in Montana in 1984 as heating, air conditioning, and refrigeration mechanics was 459; Projected employment in 1990 is 462; Projected annual openings are 12.

15. Other:

APPRENTICESHIPS

1. Title: REFRIGERATION UNIT REPAIRER

2. DOT: 637.381-014

3. CIP: 47.0202

4. OES Code: 77285902

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$9.86 per hour

8. Minimum Qualifications (age, education, etc.): Minimum 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Mechanical ability; Good eye-hand coordination; Finger dexterity; Stamina.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Shop Electronics, Welding, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Association of Plumbers and Pipefitters; Sheet Metal Workers' International Association

14. Additional Information: Evening and weekend work necessary in emergencies; Overtime work common during summer and winter; Number employed in Montana in 1984 as heating, air conditioning, and refrigeration mechanics was 459; Projected employment in 1990 is 462; Projected annual openings are 12.

15. Other:

APPRENTICESHIPS

1. Title: RELAY TESTER (UTILITY)

2. DOT: 729.281-038

3. CIP: 47.0502

4. OES Code: 77285799

5. Number: 4
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$15.91 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school graduate or equivalent; Background in mathematics; Good physical condition; Aptitude test may be required.

9. Physical Requirements: Good physical condition; Good use of hands and fingers; Manual dexterity; Color discrimination; Ability to lift heavy objects and work in high places.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Electronics, Electrical Theory, Physical Education, Blueprint Reading.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Employment requires constant retraining; May work long and irregular hours; Number employed in Montana in 1984 as electrical mechanics was 199; Projected employment in 1990 is 210; Projected annual openings are 8.

15. Other:

APPRENTICESHIPS

1. Title: RESPIRATORY THERAPIST

2. DOT: 079.361-010

3. CIP: 17.0210, 17.0818

4. OES Code: 22732302

5. Number: 2
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$7.75 per hour

8. Minimum Qualifications (age, education, etc.): Post-high school training preferred.

9. Physical Requirements: Above average manual dexterity; Good general health.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Health, Biology, Physics, Math.

12. Licensing Requirements (reference only): Registration not required, but is available through the National Board for Respiratory Therapy (NBRT).

13. Union Affiliation:

14. Additional Information: Holiday, weekend, and shift work is typical; Certification preferred by some employers; Number employed in Montana in 1984 was 201; Projected employment in 1990 is 213; Projected annual openings are 8.

15. Other:

APPRENTICESHIPS

1. Title: ROOFER APPRENTICE

2. DOT: 866.381-014

3. CIP: 46.0410

4. OES Code: 77387808

5. Number: 21
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$10.00 - $13.65 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school grad or equivalent preferred; Related work experience preferred.

9. Physical Requirements: Good balance; Able to lift heavy weights; Ability to climb, bend, squat, and work in high places; Manual dexterity; Eye-hand coordination.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: English, Math, Shop, Physical Education, Mechanical Drawing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Union of Roofers, Waterproofers and Allied Workers; United Brotherhood of Carpenters and Joiners

14. Additional Information: Work with hot tar and machines; Tendency to be burned; Work is seasonal; Considerable travel; Number employed in Montana in 1984 was 170; Projected employment in 1990 is 158; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: SADDLE MAKER

2. DOT: 783.381-026

3. CIP: 48.0302

4. OES Code: 77489511

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred.

9. Physical Requirements: Manual dexterity; Coordination; Able to lift heavy weights; Good eyesight and color perception.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Home Economics, Math, Mechanical Drawing, Shop.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Leatherworkers International Union of America (see #15 below for address).

14. Additional Information: Long work hours may be required; Most are self-employed; Provide own tools; Number employed in Montana in 1984 as shoe and leather workers was 21; Projected employment in 1990 is 23; Projected annual openings are 1.

15. Other: Leatherworkers International Union of America, 11 Peabody Square, Peabody, MA 01960.

APPRENTICESHIPS

1. Title: SALESPERSON, PARTS

2. DOT: 279.357-062

3. CIP: 01.0503, 08.0705, 08.0706, 08.1203, 08.1206

4. OES Code: 33949011

5. Number: 12
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$5.25 - $12.65 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred; Sales experience preferred.

9. Physical Requirements: Ability to stand for long periods of time; Ability to deal with public; Good communications skills.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Sales, Home Economics, Commercial Arithmetic, Bookkeeping.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Previous selling experience may help in finding a job; Work week may include evenings and weekends; Auto parts apprenticeships are availabe through unions and the Montana Automobile Dealer's Association; Number employed in Montana in 1984 as retail salesperson was 11,560; projected employment in 1990 is 12,789; Projected annual openings are 700.

15. Other: For more information on auto parts apprenticeships, contact the Bureau of Apprenticeship & Training, U.S. Dept. of Labor, Drawer 1055, Federal Office Building, 302 South Park, Helena, Montana 59626, or the Montana Automobile Dealer's Association, 501 North Sanders, Helena, Montana 59601.

APPRENTICESHIPS

1. Title: SAW FILER

2. DOT: 701.381-014

3. CIP: 01.0203

4. OES Code: 77592302

5. Number: 5
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $8.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred.

9. Physical Requirements: Manual dexterity; Eye-hand coordination; Spatial and form perception.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Machine Shop, Math, Metallurgy, Blueprint Reading, Drafting, Woodworking.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Noise levels may be high; Risk of injury from sharp saws; Number employed in Montana in 1984 as sawing machine setters/operators was 37; Projected employment in 1990 is 33; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: SCREW MACHINE SET-UP OPERATOR, MULTIPLE SPINDLE

2. DOT: 604.280-014

3. CIP: 48.0503

4. OES Code: 77592997

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$8.57 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old required; High school grad or equivalent required; Aptitude test required.

9. Physical Requirements: Good eye-hand coordination; Able to visualize object of two or three dimensions and make visual comparisons.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Physics, Machine Shop, Mechanical Drawing, Drafting, Blueprint Reading, Metallurgy.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Risk injury from high speed cutting tools, moving machinery, metal chips, and abrasive dust; Most supply own hand tools; Number employed in Montana in 1984 as other machine setters/operators was 54; Projected employment in 1990 is 57; Projected annual openings are 2.

15. Other:

APPRENTICESHIPS

1. Title: SEWING MACHINE REPAIRER

2. DOT: 639.281-018

3. CIP: 47.0108

4. OES Code: 77285709

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
NOT AVAILABLE

8. Minimum Qualifications (age, education, etc.): Prefer high school or vo-tech grad; Experience preferred in Electronics or Applied Electricity.

9. Physical Requirements: Ability to climb, balance, stoop, lift, and kneel; Good eyesight; Good use of hands and arms; Mechanical aptitude.

10. Related Classroom Training: Minimum 144 hours annually recommended.

11. Helpful (pretraining) School Subjects: Electronics, Shop, Math, Physics, Public Speaking, Blueprint Reading, Chemistry.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Periodic retraining; Valid driver's license may be required; Worker may provide own set of tools; May require some weekend work; Number employed in Montana in 1984 as home appliance repairers was 332; Projected employment in 1990 is 349; Projected annual openings are 14.

15. Other:

APPRENTICESHIPS

1. Title: SHEET METAL WORKER APPRENTICE
2. DOT: 804.281-014
3. CIP: 48.0506
4. OES Code: 77489132
5. Number: 36 (Active Apprentices in State)
6. Length of Program: 4 years
7. Wages: Average Wage Range for Journeyworker: $10.00 - $16.42 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school diploma or equivalent preferred.
9. Physical Requirements: Good physical condition; Mechanical aptitude; Finger and manual dexterity; High degree of precision.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, Shop, Welding, Metal Shop.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: Sheet Metal Workers' International Association
14. Additional Information: Competition keen; Noisy work environment; Number employed in Montana in 1984 was 516; Projected employment in 1990 is 508; Projected annual openings are 11.
15. Other: For information on nature of work, wages, methods of preparation, and on-the-job training, write the National Training Fund, Sheet Metal and Air Conditioning Industry, 1900 L Street, NW, Suite 405, Washington, DC 20036.

1. Title: SHOE REPAIRER

2. DOT: 365.361-014

3. CIP: 47.0406

4. OES Code: 77489511

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 per hour

8. Minimum Qualifications (age, education, etc.): High school grad or equivalent preferred; 18 years old preferred.

9. Physical Requirements: Able to stand for long periods of time; Manual dexterity; Mechanical aptitude; Good eyesight, including good color vision.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: English, Social Studies, Math, Shop, Business Management, Bookkeeping.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Nationally in 1976, one out of two owned their own shoe repair shops (often one-person shops); Employment concentrated in large cities but available in small towns; May work six days per week; Number employed in Montana in 1984 as shoe and leather workers was 21; Projected employment in 1990 is 23; Projected annual openings are 1.

15. Other: Training information is available from the Shoe Service Institute of America, 222 W. Adams St., Chicago, Illinois 60606, or from Helena Industries, 1421 Helena Avenue, Helena, MT 59601 (telephone 442-8959).

APPRENTICESHIPS

1. Title: SIGN ERECTOR

2. DOT: 869.381-026

3. CIP:

4. OES Code: 77387899

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$10.50 - $14.94 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; Knowledge of construction methods and materials preferred.

9. Physical Requirements: Good physical condition; Able to lift heavy objects; Good balance.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Arithmetic, Drafting, Electricity and Electronics, Physical Education, Woodworking.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation:

14. Additional Information: Work often performed outdoors; Considerable danger of falls and burns; Number employed in Montana in 1984 as construction workers (no detail) was 277; Projected employment in 1990 is 272; Projected annual openings are 10.

15. Other:

APPRENTICESHIPS

1. Title: SMALL ENGINE MECHANIC

2. DOT: 625.281-034

3. CIP: 01.0204, 47.0606

4. OES Code: 77285328

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school grad or equivalent preferred.

9. Physical Requirements: Mechanical aptitude; Manual dexterity; Good physical condition.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Small Engine Repair, Auto Mechanics, Machine Shop, Science, Math.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Provide own hand tools; Number employed in Montana in 1984 was 106; Projected employment in 1990 is 116; Projected annual openings are 5.

15. Other:

APPRENTICESHIPS

1. Title: STATIONARY ENGINEER APPRENTICE

2. DOT: 950.382-030

3. CIP: 15.0403, 15.0501, 47.0502

4. OES Code: 77795032

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $9.86 per hour

8. Minimum Qualifications (age, education, etc.): 18 year old preferred; High school diploma or equivalent preferred.

9. Physical Requirements: Mechanical aptitude; Manual dexterity; Good physical condition.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Chemistry, Physics, Mechanical Drawing, Machine Shop, Applied Electricity.

12. Licensing Requirements (reference only): See next page.

13. Union Affiliation: International Union of Operating Engineers

14. Additional Information: Risk of burns from some machinery exists; Shift work is common; Number employed in Montana in 1984 was 133; Projected employment in 1990 is 132; Projected annual openings are 5.

15. Other:

LICENSING INFORMATION

1. Job Title STATIONARY ENGINEER (BOILER OPERATOR) DOT: 950.382-030
2. Licensing agency Montana Department of Labor and Industry
3. License application procedure Contact office listed below

   Office Dept. of Labor and Industry, Division of Workers' Compensation
   Safety Bureau

   Address P.O. Box 4759
   Helena, Montana 59604

   Telephone 444-6401
4. Fees:

   License fee 1st Class - $30.00 3rd Class - $12.00 Traction - $12.00
   2nd Class - $20.00 Low Pressure - $ 8.00

   Exam fee One half license fee - non-refundable

   Temporary license fee N/A

   Renewal fee $4 annually, plus physical examination.

   Replacement fee $2 if lost
5. Exam information Varies; can be given anytime in Helena, otherwise when inspector is in your area.
6. Experience required See next page
7. Education N/A
8. Other

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

SAFETY BUREAU
Division of Workers' Compensation

INFORMATION AND FEE SCHEDULE FOR
BOILER LICENSE

The following is for your information in determining the class and cost of the license, the experience required and the rated size of the equipment.

Each application is to be accompanied by ONE HALF (1/2) of the license fee. This payment shall be forfeited if applicant fails to appear for a scheduled examination or fails the test.

--BOILERS--

CLASS/COST	MINIMUM EXPERIENCE	RATED SIZE
Low Pressure $ 8.00	3 mos. full-time actual experience operating steam & hot water boilers	Up to 15 psi steam, and 50 psi hot water
Third Class $12.00	6 mos. full-time actual experience under a 3rd, 2nd or 1st class engineer	To 100 psi steam, and 150 psi hot water
Second Class $20.00	2 year's full-time actual experience OR hold a valid 3rd class license with no less than 1 year full time actual experience under 2nd or 1st class engineer	Not to exceed 250 psi steam and not to exceed 375 psi hot water and 450 degree temperature
First Class $30.00	3 years full-time actual experience OR hold a valid 2nd class license with no less than 1 year full-time actual experience, OR hold a valid 3rd class license with no less than 2 year's full-time actual experience under a 1st class engineer	All Classes 250 psi steam and up
TRACTION $12.00 (NOTE: Not good for stationary boilers)	6 months experience	Any size

APPRENTICESHIPS

1. Title: STONEMASON APPRENTICE

2. DOT: 861.381-042

3. CIP: 46.0102

4. OES Code: 77387305

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$13.00 - $17.45 per hour

8. Minimum Qualifications (age, education, etc.): 17 years old minimum; JATC requires aptitude test, high school diploma or equivalent; honorable discharge if veteran.

9. Physical Requirements: Good health; Able to do heavy lifting; Able to work standing and stooping for prolonged periods; Good sense of balance.

10. Related Classroom Training: Minimum 144 hours annually preferred.

11. Helpful (pretraining) School Subjects: Welding, Math, Mechanical Drawing, English, Blueprint Reading, Sketching, Shop Courses.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Union of Bricklayers and Stonemasons

14. Additional Information: Nationally in 1976, one out of seven were self-employed; Employment opportunities fluctuate from year to year with the building industry; Most work available in spring and summer; Cheaper concrete is replacing stone and marble in construction for many buildings; Number employed in Montana in 1984 was 31; Projected employment in 1990 is 29; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: STRUCTURAL STEEL WORKER APPRENTICE (IRONWORKER)
2. DOT: 801.361-018
3. CIP: 48,0502
4. OES Code: 77387814
5. Number: 4 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages: Average Wage Range for Journeyworker: $17 .74 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school or vo-tech grad preferred.
9. Physical Requirements: Above average strength and endurance; Good eyesight without glasses; Able to work in high places and lift heavy weights; Good balance; Manual dexterity.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: English, Math, Mechanical Drawing, Blueprint Reading, Metal Shop, Forge Shop, Welding, Physical Education.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Association of Bridge, Structural and Ornamental Iron Workers
14. Additional Information: Can involve considerable travel; Employment opportunities vary with building industry; Seasonal employment; Number employed in Montana in 1984 as structural metal workers was 162; Projected employment in 1990 is 154; Projected annual openings are 3.
15. Other:

APPRENTICESHIPS

1. Title: TAPER (DRY-WALL FINISHER)

2. DOT: 842.664-010

3. CIP: 46.0404

4. OES Code: 77387111

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$12.00 - $14.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Good physical condition; Stamina.

10. Related Classroom Training: Minimum 144 hours annually recommended.

11. Helpful (pretraining) School Subjects: Carpentry, Arithmetic.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: United Brotherhood of Carpenters and Joiners of America; International Brotherhood of Painters and Allied Trades

14. Additional Information: In Montana, most drywall finishers are self-employed; Most job openings are in metropolitan areas; Work is seasonal; Travel to different sites in state or region may be necessary; Number employed in Montana in 1984 was 48; Projected employment in 1990 is 45; Projected annual openings are 1.

15. Other:

APPRENTICESHIPS

1. Title: TELEVISION AND RADIO REPAIRER

2. DOT: 720.281-018

3. CIP: 47.0103

4. OES Code: 77285708

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$5.50 - $7.00 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school grad or equivalent preferred.

9. Physical Requirements: Good eye-hand coordination; Good hearing; Good eyesight and color discretion; Manual dexterity; Mechanical aptitude.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Radio Shop, Electrical Shop, Basic Electronics, Algebra, Trade Math, Speech, English.

12. Licensing Requirements (reference only): Federal Communications Commission (FCC) licensing may be required by some employers.

13. Union Affiliation: International Brotherhood of Electrical Workers

14. Additional Information: Furnish own hand tools; Frequent retraining and continuing education at all levels; Nationally in 1980, one out of four were self-employed; Electronics background and vo-tech grad preferred; Number employed in Montana in 1984 as home entertainment equipment repairers was 127; Projected employment in 1990 is 137; Projected annual openings are 6.

15. Other:

APPRENTICESHIPS

1. Title: TRANSMISSION MECHANIC

2. DOT: 620.281-062

3. CIP: 47.0604

4. OES Code: 77285301

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 - $12.00 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; JATC requires high school diploma or equivalent; aptitude test, honary discharge if veteran.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechancs, Machine Shop, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Career advancement opportunities limited; Growing demand for specialists; Union shops more prevalent in larger communities; Applicants should have current vehicle operator's license and good driving record; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other:

APPRENTICESHIPS

1. Title: TROUBLE LOCATOR, TEST DESK (PHONE)
2. DOT: 822.361-030
3. CIP: 47.0103
4. OES Code: 77285702
5. Number: 15 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages: Average Wage Range for Journeyworker: $14.39 per hour
8. Minimum Qualifications (age, education, etc.): 18 years old required; High school diploma or equivalent; JATC requires aptitude test; 1 year high school Algebra preferred.
9. Physical Requirements: Able to work in high places and below ground in cramped positions; Manual dexterity; Excellent health; Good vision; Acute hearing; Good color perception; Able to lift heavy weights.
10. Related Classroom Training: Minimum 144 hours annually preferred.
11. Helpful (pretraining) School Subjects: Electronics, Math, Physical Education, Electrical Theory.
12. Licensing Requirements (reference only): N/A
13. Union Affiliation: International Brotherhood of Electrical Workers
14. Additional Information: Work on poles, on aerial ladders and platforms, in manholes, or in basements of large buildings; Requires constant retraining; May work long and irregular hours; Inexperienced workers often hired and trained; Number employed in Montana in 1984 as telephone and cable TV installers was 322; Projected employment in 1990 is 313; Projected annual openings are 3.
15. Other:

APPRENTICESHIPS

1. Title: TRUCK BODY BUILDER APPRENTICE

2. DOT: 807.281-014

3. CIP: 47.0603

4. OES Code: 77285305

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$7.00 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorable discharge from military if veteran.

9. Physical Requirements: General good health; Stamina; Good eye-hand coordination; Good color perception; Ability to lift up to 75 pounds; Ability to work in a closed space with dust and chemical fumes.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Industrial Arts (i.e., Metalwork, Auto Mechanics, Welding), Math; Drafting, Painting, Metallurgy.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automative Trades)

14. Additional Information: Employment available both in small and large towns, but union shops are more prevalent in larger towns; Career advancement opportunities limited; Job opportunities better for applicants with previous related experience through a vo-tech, military service, etc.; Number employed in Montana in 1984 as auto and related repairer was 1,853; Projected employment in 1990 is 1,961; Projected annual openings are 78.

15. Other:

APPRENTICESHIPS

1. Title: TUNE-UP MECHANIC

2. DOT: 620.281-066

3. CIP: 47.0604

4. OES Code: 77285301

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 - $7.00 per hour

8. Minimum Qualifications (age, education, etc.): Must be 17 years old; JATC requires high school diploma or equivalent, aptitude test, honorary discharge if veteran.

9. Physical Requirements: Good health; Stamina; Normal vision and hearing; Finger dexterity; Ability to reach for and handle heavy equipment.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Math, Mechanical Drawing, English, Auto Mechanics, Machine Shop, Welding.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: International Association of Machinists and Aerospace Workers (Automotive Trades)

14. Additional Information: Employment available both in small and large towns; Career advancement opportunities limited; Union shops more prevalent in larger communities; Number employed in Montana in 1984 as auto and motorcycle mechanics was 1,853; Pro-employment in 1990 is 1,961; Projected annual openings are 78.

15. Other: The Montana Automobile Dealers' Association administers an apprenticeship program in Montana; their address is 501 North Sanders, Helena, MT 59601.

APPRENTICESHIPS

1. Title: WATCH REPAIRER APPRENTICE
2. DOT: 715.281-014
3. CIP: 47.0408
4. OES Code: 77285905
5. Number: 0 (Active Apprentices in State)
6. Length of Program: 3 years
7. Wages: Average Wage Range for Journeyworker: $7.90 per hour
8. Minimum Qualifications (age, education, etc.): High school diploma or equivalent preferred; 18 years old preferred; Vo-tech experience preferred.
9. Physical Requirements: Manual dexterity; Good vision; Good depth perception; Good eye-hand coordination.
10. Related Classroom Training: Minimum 144 hours yearly recommended.
11. Helpful (pretraining) School Subjects: Math, Physical Sciences, Mechanical Training, Electronics.
12. Licensing Requirements (reference only): Not required by Montana; Certification as "Certified Watchmaker" and "Certified Master Watchmaker" administered by the American Watchmakers' Institute (see below).
13. Union Affiliation:
14. Additional Information: Provide own hand tools, sometimes including lathes, cleaning machines, demagnetizers and timers; Nationally in 1980, one out of three was self-employed; Electronic watches are growing in popularity; Number employed in Montana in 1984 as precision instrument repairers was 87; Projected employment in 1990 is 87; Projected annual openings are 2.
15. Other: For more information, write to the American Watchmakers' Institute, P.O. Box 11011, Cincinnati, Ohio 45211.

APPRENTICESHIPS

1. Title: WATER TREATMENT PLANT OPERATOR

2. DOT: 954.382-014

3. CIP: 47.0504

4. OES Code: 77795002

5. Number: 1
(Active Apprentices in State)

6. Length of Program: 3 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $9.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent required; Some formal training may be required.

9. Physical Requirements: Mechanical ability; Agility; Eye-hand coordination; Manual dexterity.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Biology, Chemistry, Algebra.

12. Licensing Requirements (reference only): Certified by Montana Department of Health and Environmental Sciences (see #15 below).

13. Union Affiliation:

14. Additional Information: Exposed to fumes, dangerous gases, and noisy motors; Shift and weekend work common; Number employed in Montana in 1984 was 378; Projected employment in 1990 is 378; Projected annual openings are 16.

15. Other: For certification information, contact the Water Quality Bureau, Department of Health and Environmental Sciences, Room A206, Cogswell Building, Helena, Montana 59620; phone (406) 444-2691.

APPRENTICESHIPS

1. Title: WEB PRESS OPERATOR APPRENTICE

2. DOT: 651.362-034

3. CIP: 48.0208

4. OES Code: 77592519

5. Number: 7
(Active Apprentices in State)

6. Length of Program: 4 years

7. Wages:
Average Wage Range for Journeyworker:
$6.00 - $9.63 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduation or equivalent preferred.

9. Physical Requirements: Eye-hand coordination; Manual dexterity; Good color vision; Ability to see detail and picture objects of two or three dimensions; Ability to lift up to 100 pounds.

10. Related Classroom Training: Minimum 144 hours yearly recommended (off correspondence).

11. Helpful (pretraining) School Subjects: English, Graphic Arts, Math, Chemistry, Physics, Mechanical Drawing.

12. Licensing Requirements (reference only): N/A

13. Union Affiliation: Billings-Missoula Printing and Graphics Communications Union (AFL-CIO); International Printing and Graphic Communications Union

14. Additional Information: Work under pressure to meet deadlines; Union shops only work through apprenticeship training programs; Noisy work; Number employed in Montana in 1984 as printing press setters/operators was 7; Projected employment in 1990 is 7; There are no projected annual openings.

15. Other:

1. Title: WELDER APPRENTICE, COMBINATION

2. DOT: 819.384-008

3. CIP: 48.0508

4. OES Code: 77693914

5. Number: 0
(Active Apprentices in State)

6. Length of Program: 2 years

7. Wages:
Average Wage Range for Journeyworker:
$8.00 - $9.50 per hour

8. Minimum Qualifications (age, education, etc.): 18 years old preferred; High school graduate or equivalent preferred; Formal training preferred.

9. Physical Requirements: Manual dexterity; Good eye-hand coordination; Good physical condition; Good eyesight.

10. Related Classroom Training: Minimum 144 hours yearly recommended.

11. Helpful (pretraining) School Subjects: Welding, Math, Mechanical Drawing, Metallurgy, Machine Shop, Blueprint Reading.

12. Licensing Requirements (reference only): See #15 below.

13. Union Affiliation: International Association of Machinists and Aerospace Workers

14. Additional Information: Courses listed in #11 above will improve chances for getting an entry-level job; Number employed in Montana in 1984 as welders and cutters was 864; Projected employment in 1990 is 867; Projected annual openings are 19.

15. Other: Certification, which involves practical exams and payment of a fee, is required for some specialized welding jobs such as bridges, where the strength of the weld is important. The exam is usually given by the employer or a government agency.

Appendix 1

GENERAL APPRENTICESHIP SELECTION COMMITTEE CONCERNS AND QUESTIONS

For many apprenticeship programs, applicants are interviewed by a selection committee. The following lists some general concerns of committees, hints on how applicants can deal with those concerns, and examples of questions that may be asked during the interview.

(Note: The specific concerns and the actual questions will vary with the trade and the committee. To meet federal requirements for Equal Employment Opportunity and Affirmative Action, a committee for a specific apprenticeship program will ask all applicants the same questions.)

There are several things committee members want to know about:

1. Desire and Persistence

   -- Explain why you want to enter the trade.
   -- Tell how you became interested in the trade.
   -- Let the committee know if you have ever applied to this or any other trade before.

2. Knowledge of the Trade

   Do some homework on the trade. Observe the workers and see the environment you'd be working in.
   -- Describe some of the jobs the workers perform.
   -- Talk about the tools and equipment used in the trade.
   -- Know how long the apprenticeship program is.
   -- Know what the apprenticeship and the journeyworker pay scales are.
   -- Do some homework on other trades, too. Show you've been exposed to many other trades and explain your reasons for choosing this particular trade over others.

3. Qualifications for the Apprenticeship Program

   -- Show that you know all the qualifications for entering the program.
   -- If you do not meet all the qualifications, let the committee know what you are doing so that you will (for example, taking parts of the GED or enrolling in a geometry class).

4. Work Experience

   --Describe any work experience that may be related to the trade or that may have provided exposure to the trade.
   -- Relate any experience where you have a favorable work record (good references, attendance, and long-term employment).

5. Personal Experience

   -- Describe hobbies or other activities that show mechanical ability or physical strength and that may be related to the trade (for example, doing minor repairs around the house, using hand tools, servicing your car, and planning the family

budget).

The following are sample questions that may be asked during the interview. You should answer all questions as completely as possible. It is your responsibility to tell the committee about all of your trade-related interests, activities, awards, and experience.

1. Why do you want to be a . . . . . ?

2. Why did you choose . . . . .over some other trade?

3. Have you ever seen someone do this kind of work?

4. Construction sites are cold in winter, hot in summer; they can be muddy and wet. What makes you consider working in these conditions?

5. What kinds of work have you done in the past?

6. The language on a construction site gets pretty rough sometimes. Do you think you can take it?

7. Can you travel? (Asked only if traveling is required.)

8. Do you have babysitting taken care of? Transportation?

9. (If the applicant has any college) I see you went through . . . . years of college. Why aren't you working in the field for which you trained?

10. How do you feel about going to school as part of your apprenticeship?

11. Is there anything else that you would like to tell us about yourself?

A general question such as Question 11 provides you with the opportunity to describe anything that was not covered by previous questions and that you think is important.

SOURCE: Oregon Career Information System

Appendix 2

Laborer's A.G.C. Training Program

The Laborer's A.G.C. Training Program prepares students to become laborers. The program consists of training in the use of laborers' tools, blueprint reading, laying cement and pipe, use of explosives, and other work and safety procedures. The program is a two to three week camp held in Helena each spring.

The Laborer's A.G.C. Training Program provides skills training which can be beneficial when applying to an apprenticeship program. For more information on this program, contact a Laborer's Union Office in Butte, Billings, Great Falls, Helena, or Missoula, or write to the Laborer's A.G.C. Training Program for Montana, RR 2 - Box 221D, Helena, Montana 59601.

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